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Is Earth Shifting Under Foot?

Do the continents move? This was the question discussed by scientists from four continents at Atlantic City at the annual meeting of Petroleum Geologists. The annual research committee symposium of the Society of Economic Paleontologists and Mineralogists is discussing such intriguing questions as "is the Atlantic Ocean an ancient or comparatively recent feature of earth geography?"

Ever since geologists first recognized the remarkable similarity between the two sides of the Atlantic Ocean, they have been wondering if this could be due to a large ancient continent having been pulled apart or broken up to form our present continents. The land areas of the world today may be a jig-saw puzzle on a grand scale, and the possibility that North and South America moved westward into the Pacific Basin, opening the Atlantic Ocean behind, it is being seriously considered.

At a similar symposium held 25 years ago, most geologists doubted the idea because they couldn't conceive of any mechanism for moving so much land. In the last twenty-five years, however, much has been learned of the physics of the earth and many new factors have entered the picture. Geologists today are far from unanimous in their acceptance of the Continental Drift theory, but the idea is stimulating discussion and research all over the world.

Research on magnetism in rocks is being reported by three scientists. Many particles of clay and sand being carried by rivers and deposited in deltas and on ocean floors are minute magnets, which on falling to the ocean floor point north, as does the needle of a compass. Such miniature magnets are found in many ancient rocks also and must have pointed to the north of that time.

Professor S. K. Runcorn, of the University of Durham, England, has led research in this field. He reports that in rocks deposited before about 60 million years ago the oriented "magnets" do not point north. In general, the older the rocks, the more they deviate from north. This might be evidence favoring continental drift or it might indicate that the North Pole itself had moved since early times. But the "magnet" orientation in rocks of the same age on different continents does not agree on a single pole position. According to Professor Runcorn and Dr. E. R. Deutsch of Canada's Imperial Oil Company, this indicates that the continents must have moved and turned differently. It is strong evidence for continental drift.

Obviously, large scale movements of the continents would have had an effect on their climates. Areas now temperate might once have been tropical. Evidence of this in the rock record of past time is reported by several of the scientists.

Professors T. Y. H. Ma, of the National Taiwan University, Formosa, and A. G. Fischer of Princeton University discussed the significance of the geographic distribution of ancient corals and coral reefs. These can be presumed to have grown best near the equator, as they do today. How can you explain ancient reefs in arctic regions? Both Professors Ma and Fischer believe that this evidence supports continental drift.

Most explanations of the mechanism of continental movements have involved "drifting" in the conventional sense; continents of light-weight granitic rock have moved through a "sea" of heavy basaltic rock, such as underlies the ocean. Professor S. W. Carey, of the University of Tasmania, Australia, however, theorizes that the earth has expanded and that areas between some of the continents, such as the Atlantic Ocean and the Mediterranean Sea, are rifts or cracks, formed during the expansion. The idea of expansion is supported by new information on sea-floor geology presented by Professor B. C. Heezen of Columbia University.

Antarctic geology, earthquake patterns, latitude distribution, ancient marine biology, algae over 500 million years old and glaciation—the relationship of all these studies to problems of continental history was formally presented by other members of the symposium.

Informally, in halls, room corners, whenever geologists met, the pros and cons of these and other aspects of the problem were discussed. In detail there were as many conclusions as participants, but on the broader question there was remarkable unanimity that continental drift was feasible and that it had probably taken place.

Representatives from Continental-Emsco tour the manufacturing plant of Baker Oil Tools, Inc. in Los Angeles.

A. C. Mattei Resigns As Board Chairman Honolulu Oil Corp.

L. A. Cranson, president and chief executive officer of Honolulu Oil Corporation, announced recently that the board of directors of that Company had regretfully accepted the resignation of A. C. Mattei as chairman of the board of directors at the organization meeting of the Board following the Company's Annual Meeting of Stockholders held Tuesday, April 19th, at the Company's offices at 215 Market Street, San Francisco 5, California. Mattei will continue to serve as a director of the Company. The office of chairman of the board will remain vacant for the present time.

Under Mattei's leadership, Honolulu Oil Corporation grew from a small oil-producing company operating in California to one of the larger independent producers of crude oil, natural gas and gasoline, with operations in California, the Mid-Continent and Rocky Mountain areas of the United States and in Canada.

At the aforesaid organization meeting, Alden S. Donnelly was elected to the newly-created position of executive vice president-exploration, development and production; Warren H. Kraft was elected to the newly-created position of executive vice president-manufacturing and administration; and R. L. Blunden was elected vice president-Northern Rocky Mountain Division.

Supply Store Representatives Tour Baker Plant

Tours of the Los Angeles, California, manufacturing plant of Baker Oil Tools, Inc. were recently conducted for representatives from National Supply Company, Oil Well Supply Company, Continental-Emsco, and Howard Supply Company.

Until recently Baker's sale of equipment through supply stores was limited to areas outside California. Now, however, many of the products manufactured by Baker Oil Tools, Inc. are available through local supply stores, and the tours of the company's Los Angeles plant were arranged to provide an opportunity for the supply company representatives to become familiar with the personnel, products, procedures and policies that will affect the sale of Baker equipment through the supply stores.

The tours were arranged and conducted by G. M. Anderson, Baker's Western Division sales and service manager, and E. H. Bigelow, Western Division staff engineer.

District V Oil Industry March 1960 Preliminary Conditions

by Oil Producers Agency of California

A U. S. Bureau of Mines estimate for March based upon weekly American Petroleum Institute and U. S. Bureau of Mines reports, follows:

Total Supply, Demand, and Stocks

Total supply was 1,355,000 B/D, demand was 1,478,000 B/D, and stocks dropped 123,000 B/D. This decrease, 3,813,000 barrels for the month, would bring total stocks to 118,784,000 barrels on March 31, compared with 137,007,000 on March 31, 1959. The year's decrease was 18,223,000 barrels.

Crude Production, Imports and Stocks

Weekly figures for March indicate that crude production was 827,000 B/D, imports were 231,000 B/D, and stocks increased 15,000 B/D. This increase, 465,000 barrels for the month, would bring stocks to 35,010,000 barrels on March 31, compared with 40,457,000 on March 31, 1959. The year's decrease was 5,447,000 barrels.

Gasoline Supply, Demand and Stocks

Preliminary figures for March indicate that gasoline supply was 603,000 B/D, demand was 586,000 B/D, and stocks increased 17,000 B/D. This increase, 527,000 barrels for the month, would bring stocks to 35,006,000 barrels on March 31, compared with 32,702,000 on March 31, 1959. The year's increase was 2,304,000 barrels.

Distillate Fuel Supply, Demand and Stocks

Preliminary figures for March indicate that distillate supply was 223,000 B/D, demand was 235,000 B/D, and stocks decreased 12,000 B/D. This decrease, 372,000 barrels for the month, would bring stocks to 12,394,000 barrels on March 31, compared with 12,511,000 on March 31, 1959. The year's decrease was 117,000 barrels.

Residual Fuel Supply, Demand and Stocks

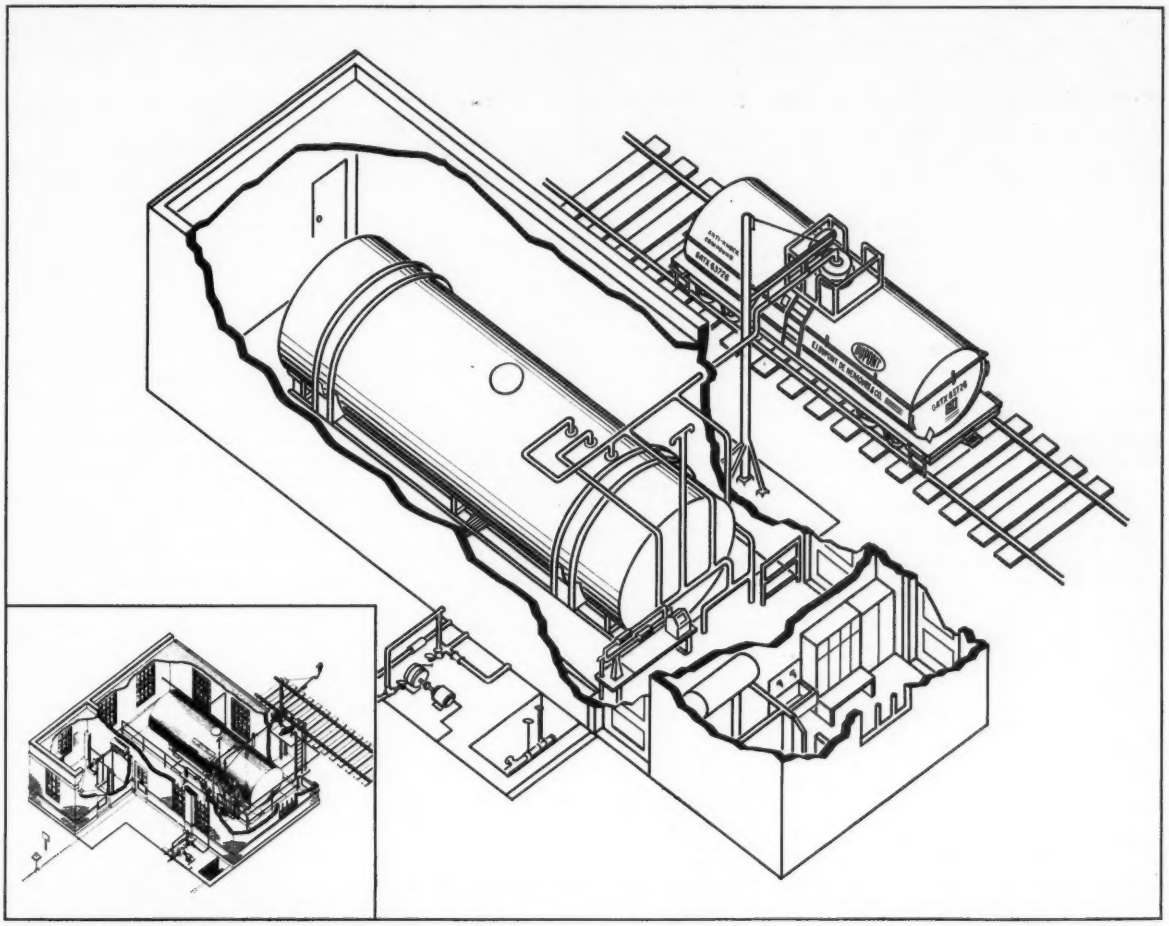
Preliminary figures for March indicate that residual fuel supply was 307,000 B/D, demand was 361,000 B/D, and stocks decreased 54,000 B/D. This drop, 1,674,000 barrels for the month, would bring stocks to 14,991,000 barrels on March 31, compared with 28,243,000 on March 31 1959, a 13,252,000 barrel decrease.

DU PONT *Petroleum Chemicals* NEWS

Number 102 in a Series of Bulletins for the Petroleum Industry

MAY-JUNE 1960

New TEL blending plant design puts more efficiency into less space



NEW TETRAETHYL LEAD BLENDING PLANT represents a major design change made possible by Du Pont's continuing efforts to develop new methods for more efficient use of petroleum additives by refiners.

Du Pont design reduces unloading time, cuts construction and maintenance costs

Ever since Du Pont designed the first tank-car-to-weigh-tank tetraethyl lead blending plant in 1928, our continuing research programs have yielded many refinements in blending plant equipment and operation. Among them have been the metal-flex unloading hose, the siphon starter and hydraulic system modifications.

Du Pont engineers have now figuratively taken apart and redesigned the TEL blending plant from the ground up. Their goal was to develop a design that incorporates new engineering developments and materials.

They tested valves, fittings and components to determine their actual interrelations. They evaluated the relationship of tank car and weigh tank. They investigated construction costs. They accumulated mountains of facts and details.

ADVERTISEMENT—Prepared for the Petroleum Chemicals Division of E. I. du Pont de Nemours & Company (Inc.)

OVER

DU PONT *Petroleum Chemicals* NEWS

Railroad learns what happens when it stops using FOA-2

Not long ago, a leading railroad tried an interesting experiment:

They had been using Du Pont FOA-2 to keep diesel locomotives free from filter plugging and other potential fuel problems. At one point, however, they felt that the sludge problem wasn't severe enough to justify continued use of the additive. So they discontinued use of FOA-2 in certain fuels, to measure its value.

Shortly after the test started several cases of fuel incompatibility were reported for the first time; filter plugging increased; and it was quickly found that the cost to replace the filters was more than the cost of the FOA-2 they had previously used.

Today, this railroad is once more using FOA-2 to reduce sludging and keep filters clear. Costs and maintenance and worries are once more back in line.

Du Pont AFA-1 provides economical corrosion protection for Aviation Fuels

Refiners are reminded of the very high effectiveness of Du Pont AFA-1 Aviation Fuel Additive as a corrosion inhibitor.

Concentrations as low as 2-4 pounds per 1,000 gallons have been found to produce rust inhibition in some fuels by the modified ASTM D665-54 Dynamic Rust Test.

Exact dosages, of course, depend upon the characteristics of the fuel itself. But the consistently low amounts of AFA-1 required can mean substantial savings in your additives costs. (Another advantage of AFA-1: the water tolerance test on aviation gasolines as jet fuels is more easily met.)

In addition to automotive and aviation gasolines, Du Pont AFA-1 brings the advantages of corrosion inhibition to other petroleum products such as heating oils and diesel fuels. Contact your Du Pont Petroleum Chemicals representative for additional information. Ask for our bulletin on Du Pont AFA-1.

CONTINUED

Plant redesign

Mathematical Model

From these data, a mathematical model was built which could be modified at will and examined by computers. The Univac then translated these models into actual blending plant designs. For any prospective design, for example, Univac could evaluate such data as specific gravity of the fluid, viscosity, barometric pressure and initial vacuum to determine unloading time. Optimum performance values were then established.

The result: an updated lead blending plant design that:

Reduces unloading time because every valve and fitting is operating at its known, optimum capacity. The operator's effort is reduced as well, since his work area is now at the *end* of weigh tank. Waste motion is eliminated.

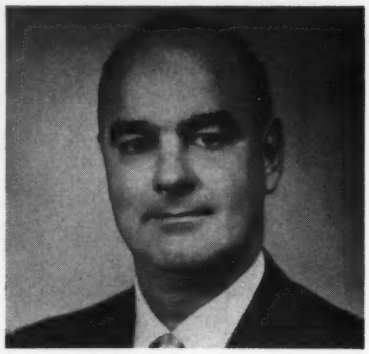
Reduces construction costs through a more compact, modern design. The "straight-line" plant occupies less floor area, eliminates windows and the former "L" floor plan. With the weigh tank installed on the scale, several tons of structural steel supports are eliminated.

Reduces maintenance, for example, through a new ball valve design which provides for low pressure drop. This valve is equipped to minimize leakage and packing problems.

Full Details Available

Interested refiners can obtain full details on this new blending plant design by contacting the nearest Du Pont Petroleum Chemicals representative. His office is listed in the box below.

You ought to know



LEWIS Z. CAREY, manager of our Pittsburgh district office. He succeeded the late Afton D. Puckett in mid-1959.

A native Philadelphian and a graduate of the University of Delaware, Lew Carey first came to Du Pont in 1941 when he joined the Organic Chemicals Department. Later that year he began four years of military service as gunnery officer aboard a destroyer escort.

He returned to Du Pont late in 1945 and was a sales correspondent for our Alcohol and Camphor Division until 1951, when he joined the operations section of the Petroleum Chemicals Division as a technical assistant. Shortly afterward he became a sales service representative in our Eastern region, and then became the first manager of our Philadelphia district office in 1955. In that assignment, he was effective in serving the petroleum refiners and marketers in that area with the technical, marketing and refining know-how of Du Pont's Petroleum Chemicals Division.

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OVER

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A-14686

Printed in U.S.A.

Domestic Oil Exploration Up With Mandatory Controls

U. S. Undersecretary of the Interior Elmer F. Bennett said on April 21 in Cleveland, Ohio, at the NPA Meeting that the first year of mandatory oil import controls contributed significantly to a "modest, but encouraging upswing" in domestic exploration and well completions.

Bennett spoke at a final general session of the 57th Mid-Year Meeting of the National Petroleum Association. The two-day gathering drew about 700 oil refiners, technologists and their guests.

The Interior Department official noted that in 1959 there were 50,893 oil wells drilled in the U.S. with completions averaging 3.6 per cent higher than in 1958. A decline in exploratory work was halted, Bennett said, and there were in 1959 an average of 2,074 rotary rigs operating in the U.S., about eight per cent higher than the previous year.

There were 10,073 wildcat wells drilled, about five per cent more than in 1958, Bennett said, and proven reserves of liquid hydrocarbons registered a record high with more than 1.5 billion barrels added.

"We would not be so foolhardy as to claim that the mandatory oil import program is entirely responsible for this modest, but encouraging upswing," Bennett said. "However, in fairness, we do claim it has been an important contributing influence, both materially and psychologically."

He said the present mandatory program seemed to be succeeding where previous efforts to impose import curbs on a voluntary basis had failed.

However, Bennett warned that the industry faced many other problems. Consumer demand is not rising as rapidly as it has in past years, he said. Refining capacity outstrips demand for products and as a consequence inventories are high.

"You will note, however, that excessive imports are not generally listed in the table of contents of today's problems," Bennett told the NPA.

"From the beginning, we in the Department of the Interior insisted that crude oil imports were not the sole cause of the problems faced by the petroleum industry," he said. "Today, we insist with equal vigor that mandatory controls on oil cannot solve all of the current problems of the nation's fuel industries, nor should they be expected to."

LOS ANGELES EXECUTIVE AT SHELL MANAGEMENT COURSE—E. J. Dunne (right), Los Angeles, and M. E. Spaght, Shell Oil Company's executive vice president, discuss a point during the Shell Management Course at the Arden House campus of Columbia University, about 50 miles north of New York City. Dunne is manager of Shell's west coast traffic department. He is one of 27 company managers from the United States and Canada who are participating in four weeks of intensive study. The management course began April 3 and concluded April 29

"These controls will play only a supporting role in your future stability," he added.

"Initiative, ingenuity, business acumen and sound judgment gave this nation its magnificent petroleum industry," Bennett said. "To these positive values—as distinct from governmental action—you must look to find the answers to the full scope of the problems of the industry."

Union Discontinues Study Of Extracting Oil from Shale

A three-year study of the economics and processing techniques of extracting oil from shale has been concluded and the demonstration research facilities near Grand Valley, Colorado, will be dismantled, it was announced recently by A. C. Stewart, senior vice president, Union Oil Company of Calif.

"Although Union's research plant demonstrated the efficiency of its patented retorting process by extracting as much as 26 gallons of oil from a ton of shale, the present depressed price of crude oil and the tax picture are such as to make the process uneconomic at this time," said Stewart.

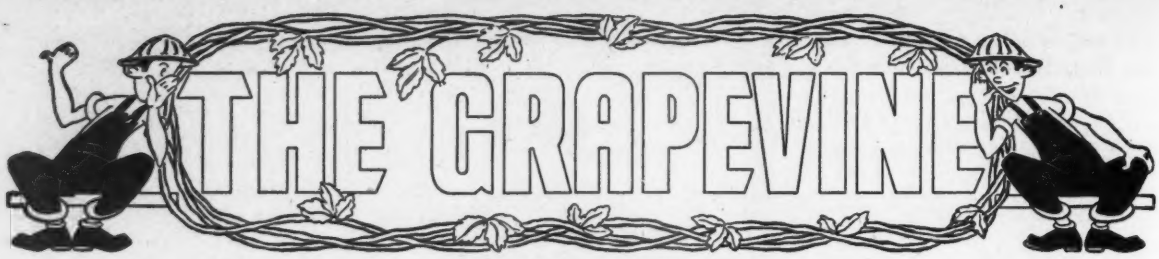
"Looking forward to the day when full scale commercial oil shale operations will be carried on, Union expects to maintain intact both its land and water rights positions.

Borg-Warner Corp. Earnings Mount

Borg-Warner Corporation recorded both increased sales and profits for the three months ended March 31, 1960, Roy C. Ingersoll and Robert S. Ingersoll, chairman and president, respectively, reported recently. This was achieved despite cancellations and deferred delivery by many customers when business did not materialize as per the overly optimistic forecast at the beginning of the year.

The improved first quarter results for the corporation were announced at Borg-Warner's 32nd annual meeting which was held in the company's Exhibition Hall in the Borg-Warner Building at 200 South Michigan Avenue, Chicago.

Sales for the first quarter this year totaled $162,022,000 compared with $149,713,000 during the first three months of 1959, a gain of 8.2%. Net income for the first quarter of 1960 amounted to $8,319,000, equal to 92 cents a share, against $7,770,000, equal to 86 cents a share in the comparative period last year, an increase of 7.1%.



By RICHARD SNEDDON

We're Off to See the Wizard

For the first time in "miny miny" years we rode without benefit of chauffeur to Rancho Santa Fe a few weekends ago and joined John Robinson, the immaculate Macconian, and his band of Nineteeners in a short season of relaxing that was considerably more strenuous than violent exercise. The first person we encountered upon arrival at the lush southern hostelry was Wendell Jones, the ex-Bethlehem high tenor, who later was a Calcutta winner on two successive days and is now in a position to squander the rest of his days in unbridled extravagance or, as old man Pepys, the diarist once stated it more fitly, "in agreeable depravity." Having discussed art, literature, science, and such obscure sports as apple ducking and pinning the tail on the donkey until we were out of material, we raced over to La Jolla and had a most enjoyable visit with our old friends, Ken and Alice Sclater.

We Visit the Sclaters

The Sclaters have a beautiful waterfront home there and Ken, (former editor-in-chief and part owner of "The Petroleum Engineer") as anyone who knew him would expect, has accumulated enough equipment in his "do-it-yourself" workshop to tool up for a missile plant. Incidentally, besides ourself he is probably the only alumnus of Glasgow Tech in the oil industry and by an odd lack of coincidence we have both been remarkably successful businesswise except Snedderhorn. Being expert in most of the unprofitable crafts we personally have a wonderful memory for bits of anecdotal floss that the more solid type of citizen is eager to forget. This visit, for example, recalled the story of the easterner who moved out to Los Angeles and was followed shortly after by one of his buddies. They were talking things over when the newcomer arrived and the first migrant was pretty enthusiastic about the west coast. He advised his friend especially to take a trip to San Diego. "Just north of the city about 10 miles," he said, "you'll find one of the cutest little towns you ever saw. The name is spelled, L-A J-O-L-L-A, and do you know how the crazy Californians pronounce it? San Haceento!"

It Waxes Hot

By the time we were able to tear ourselves away from the Sclater estates and the Sclater hospitality, Nineteeners by the dozen were swarming in from the golf course. In order to get into the swim, therefore, we moved our goods and chattels in with our perennial roomie, Len Price, West Coast Valve distributor, and promptly became embroiled in the grand palaver. It is appropriate that we should be a bunkie of Len Price because we both have perfect pitch, and our next door neighbors tell us that our snores blend in an exciting "concourse of sweet sounds."

Further Meanderings

Regardless of all that, we sallied forth to give our brother Nineteeners the mystic word and the secret grip and for the next little while were busier than a chipmunk on a treadmill. We remember meeting Ed Steele, the iron man from Taylor Forge in a bathtub somewhere, and nearby were the old inseparables, Roy Johnson and Henry Paulsen, debating whether they should have a swim and freeze to death or a shower and scald to death. We were told by one of the bell hops that there was live action in Room 59 so we hustled across and found Al "Dutch" Zwerneman, the newest Texas millionaire, dealing out largesse with a lavish hand.

Speculative Enterprise

Meantime, we were somehow maneuvered into a gin game with Dave Bradbury against John Robinson and Ed Steele which was excellent practice for what was to follow later. After the dinner meeting which was easily the most constructive affair of its kind ever held, we coupled with Rand Hogan, the Kaiser Steel magnate, against Hal Davis of the Myers Drum enterprises, and John McLeod, the Caledonian Croesus. The result of this debacle was that John had to hock the family jewels, including the noted McLeod cairngorm which still bears the finger indentations of the first McLeod to snatch it, and how he is now holding off the milkman and other trades people who must be clamoring at his door is fortunately none of our concern. With roomie, Len Price, as our partner, we later lowered the boom slightly on Sam Patterson, the Signal Oil & Gas Co. fashion plate, and Joe Aderhold, the noted song stylist and quartet organizer. Although the plusage in this one was minor, the protestations were biting and bitter.

The Glee Singers

Incidentally, for those who have never organized a quartet or sung in one, the history of this species of torture might be interesting. The habit of forming into intimate groups of four, inclining heads, inward, breathing deeply in each other's faces and hurling decibels into the sky, had its birth, not in the barbershop as is popularly supposed, but in the rathskellar or pre-Devonian speakeasy. The members of a modern quartet are designated respectively as the tenor, lead, baritone, and bass, and occasionally by names that are not quite so complimentary. The tenor is a round man with a generous paunch and multiple chins. In consequence he has room for only a very thin voice, but he can push it out with real power, and how he contrives to hold his notes so long is something that the loan department at the local bank would give anything to know.

The lead is so-called because in his anxiety to be heard he usually

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leads the rest of the quartet by about half of a beat. The baritone is a chap who has practised singing inside of a Myers drum and has developed a high resonance. This, however, should not be held against him since he is going to quit anyway as soon as he can find a steady job.

Definitions

The bass is a thin fellow with a wing collar, a prominent Adam's apple and a voice that was designed for a much larger man. The greatest disappointment in the world is to meet a bass singer after talking to him on the phone. His voice is out of all proportion to his anatomy. His place in the quartet is like that of the oompah instrument in an orchestra, but given any encouragement he will launch out on his own and sing a piece called "The Big Bass Viol," during the rendition of which he will descend two octaves lower than a bull frog with laryngitis. The combination of voices in a quartet is carelessly termed "harmony" and it is the effort of all such groups to end each song in an extended paean of dissonance, known as a chord. Any time a song shows signs of becoming melodious, the performers take off in different directions and soon tear it apart again. A nice thing about the rendition of a quartet is that the minor defects in the contributions of the individual members are masked by the substantially greater defects of the ensemble as a whole.

Among Those Present

Speaking of singing reminds us that among the celebrities present at the Rancho whingding were Monte Lindmoe, the Yuba baritone from San Francisco, who has tossed his white Cadillac into the discard and is now shuttling hither and yon in an Air Commander, piloted by two fine young chaps, Al Herman and Dick Malped. With them on this jaunt was the irrepressible Ed Steele between whom and Monte the pilots must have been well educated and entertained. We met them on Saturday afternoon while they were being thoroughly amused by the badinage of the big brass. In a typical Nineteener word fracas there were engaged such dabblers in high finance as John McLeod, Ken Norris, the Norris-Thermador grand potentate, Al Zwerneman, Randy Hogan, Monte Lindmoe, and Charlie Schriber, the boyish looking Jorgensen Steel executive with the grown-up mentality. The verbal thrusts and stinging repartee that marked this seance was just short of priceless but the palm for the bon mot of the day goes to Rand Hogan. Jock was needling Monte about paying off his small debts with checks. Patting his own back pocket affectionately, he said, with a liberal interspersion of extra r's, "I always carry enough right here to pay off my obligations in cash." "Yes," Randy interjected quitely, "and I'll bet it's all in the old wide bills!"

GEARS FOR INDUSTRY
THE Lufkin LINE
OIL FIELD PUMPING UNITS

WHAT IS A. G. M. A.?

When you buy a gear box (common terminology for gear reducer, speed increaser, etc.) it is a good idea to find out in advance whether the manufacturer builds it in accordance with the standards of the American Gear Manufacturers' Association. Its nameplate should bear the AGMA symbol.

V. J. Fawcett

Lufkin is a member of the association and participates in committee work where the standards are shaped, worked and re-worked before voting by the membership takes place.

Although the buyer of a gear stamped "AGMA" is assured of receiving a product that is guaranteed to meet certain standards, he is by no means relieved of the need to search for value. An AGMA gear should never fall below certain minimum standards of design, construction, ratings, etc., but considerable latitude exists among manufacturers of this association, and it will pay a user to thoroughly check and compare things like bearing life, gear brinell, face widths and diameters, shaft materials, case construction.

Lufkin welcomes such evaluations and gladly provides data to assist in making comparisons.

VIC FAWCETT
Pacific Coast Manager
Gear Division

Lufkin FOUNDRY & MACHINE COMPANY

The Winners

It might be noted at this point that the winners of the Calcuttas were as follows: In the opener, two teams tied for first, to wit, Jack Perrin & Wendell Jones, and an out-of-state duo, Hal Detrick & Dave Braithwaite. Taking third money were Bob Fluor and Ken Norris. On the second day Fluor and Jones romped off with first money and second and third places were divided between Fox Boswell & Lev Sacre and Dave Bradbury & Frank Shlemmer. Besides those already mentioned we noted among the guests Ralph Clemons, the daring chap who uses his finger as bait to catch gophers; Chappie Chapman, the Texan with the Oklahoma lingo; Jim MacDonald, the explosion photographer; Hal Lindquist, perennial sufferer from decalcomania; Bill Conroy, the National Aluminate Co.'s haberdashery sensation; a Union trio, consisting of Dudley Tower, Charlie Perkins, and John Fraser, who flew up to Stearn's picnic ground for the Cy Rubel whingding; Rex Hensel, Shell Company purchasing whiz; and Milt Connors, the procurement chief from Tidewater Oil Company.

Others on View

Then there was that popular guy from the top ranks of Republic Supply Company, Glenn Pitts, and his Bakersfield aide, Roger Brown, who wasn't in the money this time for a change; Clayton Rose, one of the Monarch Engineering higher ups; Lee Emerson, that delightsome Kaiser fellow from Oakland; Bob Mangan, the indestructible one from Hershey Drilling Co.; Sid Hayes of the Ball & Black enterprises; Hans Ross, the village blacksmith; Al Dragge, the handsome A. O. Smith executive; Rowley Lohman, dabbler in new and used golf courses; War-

ner Parker, the Oil Well Supply Co.'s golf and gin sharpie; Ed Thatcher, the genial Chevronite purchaser; Karl Kreiger, who uses boron in his drives; Georgeous George Trembley, the Sunland fashion plate; Bill Cline, the Sun Drilling Co.'s top hand, also a noted beau Brummel; and last but certainly not lost, the prime arranger of all the Nineteener parties, Lev Sacre, who through every vicissitude goes smiling sweetly and unperturbed on his blithsome way just like nice people do in poems. John Robinson, the Big Shot, handled his meetings like a true executive, levying fines and beating down protesters with equal facility. He was ably assisted in his administrations by Hot Shot Sam Patterson, Hook Shot Lev Sacre, and Half Shot Fox Boswell.

Appreciation Night

We were pleased no end on Desk & Derrick Club Appreciation Night not only to be the special guest of Lois Lewis, immediate past president of the Los Angeles group, but to be sitting right up there at the head table with all sorts of important people. There were, for example, Louise Schock, the current president, who certainly improves the appearance of a speaker's rostrum amazingly and also does a lovely job of expounding introducing, and commenting; and Blanche Kelly, president emeritus, the virtual organizer of the whole affair, and her guest, Sam Grinsfelder, in our opinion one of the nicest consultants in the village. Blanche made a very neat little talk about aims and objectives that was well done and well received. Then there was Winn Marsh, a lovely Chevronette who takes her dictation from Dick Matthews, one of the high echelon pipe liners over there on Olympic

J. Howard Marshall Louise H. Schock

Boulevard, and is also second vice president of the local D & D Club.

Introducing the Speaker

Further along was J. Howard Marshall, executive vice president of Signal Oil & Gas Co., speaker of the evening and an eloquent one, too, who told us without mincing terms that the oil business is now entering an era of global competition for which we'd better become more realistic, do some preparing, and quit kidding ourselves that we have a nice cushy little industry here in California which is independent of world disturbances. The speech was neatly interlarded with appropriate humor and was very definitely a masterly oration. It did paint a somewhat pessimistic picture but we can safely assume that one of its purposes at least was to arouse the contented ones to a realization of current trends and future dangers. Anyway, it was stimulating, entertaining, and informative, and we enjoyed it immensely.

The Remaining Brass

Away over at the other side of the table were director Helen Holt of Signal Oil & Gas Co., and her boss, J. B. "Red" Taylor, authority on gas operations; Evelyn Lewis, first vice president, a talented lady who exercises herself in behalf of R. J. Eiche & Associates, and whose guest, as program chairman, was J. Howard Marshall, the speaker. And, of course, there was Bill Bates, the Shell Company higher-up who was hosted by Prexy Louise Schock. We met many other interesting industry people, male and female, at this highly diverting conventicle and would like to cite a few more celebrities but space is limited and there were a couple of hundred more or less in attendance so maybe we'd better stop before we get into trouble. Would just like to say in conclusion, however, that we are indebted to Lois Lewis for being such a lovely hostess, and to the ladies of the Desk & Derrick Club for putting on a well organized and thoroughly delightsome get-together.

The Cy Rubel Whingding

According to all reports, the Cy Rubel recognition party out at Stearn's Picnic Ground on April 22 was a wonderful affair to which about 250 of his long time associates and old time friends came to pay their respects. There is no more highly regarded nor widely admired person in the petroleum industry than Cy Rubel and during the course of this gathering, dozens of good will messages were received from ones who couldn't attend. Indeed we are told that the entire affair was productive of more warmth than an electric blanket. Otto Gillingham, ole "Mr. Barbecue" himself, did his usual excellent stint of coming up with a delectable steak dinner and all the trimmings, that was literally out of this world. With Dudley Tower, the recently elected executive vice president, functioning as M. C., the Rubel past was ruthlessly explored, but mixed with all the

Old friends attend whingding for Cy Rubel. Left to right: C. W. Froome, George Kammerer, Jack Reed, T. R. (Tiny) Coveney, E. P. (Ernie) Wieman, C. D. (Clare) Gard, A. C. Rubel.

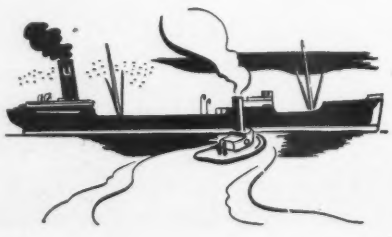
good natured banter, there was an air of general and genuine regard for Cy that was thoroughly obvious. Among those current and ex-associates who added their need of praise and made public acknowledgment of their gratitude to the guest of honor for his help and counsel in the past were Sam Grinsfelder, Jack Reed, Clarence Froome, and Bill Eggleston. As a little memento of their affection for Cy he was presented a stereophonograph with AM & FM radio, by Dudley Tower, from his many Union Oil Company friends both active and retired.

Many Pioneers Present

This was probably one of the greatest gatherings of old time Union Oilers ever to take place or ever likely to take place. Among the ex-group were such famed former members of the 7600 as Pete Erwin, Bill Geis, Russ Griffith, Irving Hancock, Bill Hopkins, Arch and George Kammerer, Harold Keans, Swede Larson, Jan Law, Ed Leabow, Pete Maxfield, R. P. McLaughlin, Jim McNeill, Ted Miles, Earl Noble, Ray Powell, Howard Pyle, Chris Rector, Phil Rockfellow, Bill Thornbury, and Ernie Wieman, which as everyone who knows the California oil industry will concede is a pretty substantial representation. It was all a very fine tribute to a very wonderful guy. One of these days we hope to do the Rubel story a little more completely than it has been done to date. It is our sincere belief that few men in this country have contributed more to the industry and its people and we can say for ourself that it has been a real privilege to have been at least reasonably closely associated over the years. We earnestly hope that he will long be spared to carry on the good works which he has so well begun.

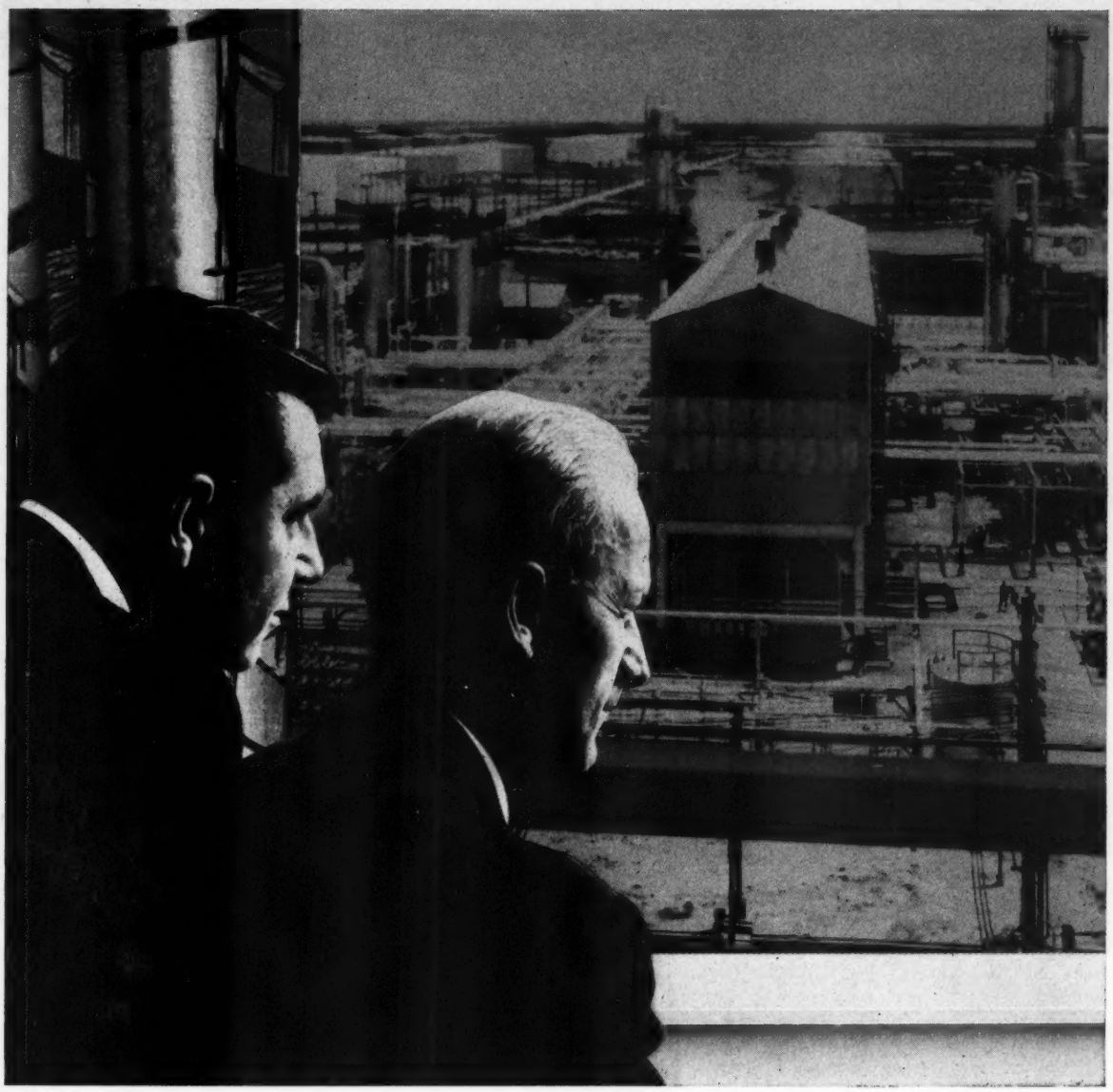
Bits of This and That

By way of last minute roundup, Andy Anderson's PPP Luncheon Club at Long Beach is going full steam ahead. They had a hundred at the first meeting and by all accounts it was an enthusiastic assembly. If you live in the Long Beach area, here is a fine opportunity for oil men to do a bit of pleasant comingling with people of their own kind. They meet on the third Wednesday of each month at the Long Beach Petroleum Club at noon and if you are a member of the Petroleum Production Pioneers, or would like to be, you are welcome to attend. A note from Fritz Taves datelined Westfield, New Jersey stated that he was leaving for South America right away and didn't expect to get back until fall. H. C. "Whitey" Clark, owner manager of Clark Oil Tool Company, down Compton way, is headed for Libya as we write whence he will visit London, Paris, Rome and Tripoli. Whitey has taken this trip a number of times since 1955 with his wife and two daughters. This time he is going it alone, so will have to cook his own porridge. He hopes as a result of this jaunt to add some new accounts to the Clark equipment line.



More of the Same

Art White recently returned from Mazatlan where he landed a 175 pound striped marlin that should give the L. A. Petroleum Club anglers a mark to shoot at. Congratulations to Dick Von Hagen, reelected president of Oil Producers Agency! Same to Larry Seaman, president of Intex, who has been named "man of the year" by the Bakersfield Desk & Derrick Club! We note the retirement from Texaco of our old buddy Joe Scanlin who ran the refinery at Fillmore for many years, and once amused us greatly by referring to the effluvium of carbon bisulphide as "a stink that would nauseate a vulture." From Bill Brooks, the noted BJ wildcat in Fort Worth, comes a word of regret at his inability to attend the PPP barbecue at Bakersfield on May 14, and a cheery hello to all his friends in California. Felicitations to Dudley Tower who no sooner escapes the responsibility of running the Petroleum Club of Los Angeles than he is elected executive vice president of the Union Oil Company! Also congratulations to Union's two new vice presidents, John Towler and Nick Ugrin, and to the new land manager, Harold Stream! The 11th Annual Barbecue and Golf Tournament of the San Joaquin Valley Chapter API will be held on Friday, May 20 at the Bakersfield Country Club, according to Carl Frazer, chairman. And just as we go to press comes the news that Dave Carnahan has severed his connection with Pacific Wire Rope Company.



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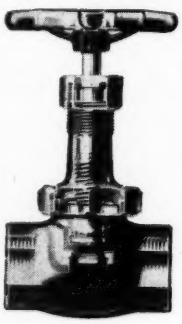

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INTERNATIONAL GUESTS AND SPEAKER at the April 13, 1960 meeting of the Los Angeles Chapter of Nomads: From left to right (front row) Stanley Nelson of Stanvac from Sumatra; K. B. Jauman of Camdrill International from Libya; Charles L. Frisch, speaker, of Swissair; T. P. Igo of American Overseas Petroleum from Sumatra; George Murray of Petrobras from Brazil; (middle row) William Hendricks of Arrow Drilling Co. going to London; Fred Peveto of I.P.C. from Iraq; Charles C. Kane of I.P.C. from Oman; Jeff Goddard of Oilfield Supply from Australia; (back row) M. Donald Wagner of Mobil Oil Company de Venezuela; Frank R. Wilmer of Shell Company of Venezuela; Mercer Martin of I.P.C. from Iraq; Mitchel F. Stetson of Arrow Drilling Company going to Turkey.

API Rocky Mountain Dist., Div. of Prod. Elect Officers

A Casper man, Larry C. Powell of Ohio Oil Company was elected district chairman of the API Rocky Mountain District, Division of Production at the annual meeting in Casper, Wyo., April 22.

Vice Chairmen elected were, Claude Peavy, Britalta Petroleum Limited of Calgary, Canada for Canada; Freeman Egolf, Phillips Petroleum Company, Casper for the State of Wyoming; J. V. Boxell, Calvert Drilling Co., Bismark for North Dakota; John Tynan, Continental Oil Company, Denver for Colorado; W. F. Rogers, Rogers Oil Company, Scottsbluff for Nebraska; Eldon A. Davenport, Shell Oil Company, Billings for Montana; and Clayton Johnson, The Equity Oil Company, Salt Lake City for Utah.

Jack Lucey of Oil Well Supply Company, Casper, was elected secretary-treasurer. All officers will serve for the 1960-61 term.

Ralph W. Collins, outgoing district chairman, said there were over 500 oil men in attendance. The papers presented and the committee work handled were of great interest and importance to the Industry.

L A Basin Chapter API Annual Golf Tournament & Barbecue

The Los Angeles Basin Chapter of API has announced its annual golf tournament and barbecue to be held on Friday, June 3, at Vessels Ranch, Los Alamitos, Katella Avenue, one-half mile east of Highway 35 (Los Alamitos Boulevard.) There will be golf all day; the Race Track club house will open at 4 p.m. for the barbecue festivities; 6 p.m. is serving time. The golf fee is $3.00, barbecue $3.50.

This affair is for members only and membership cards must be presented at gate. Tickets may be obtained from any committee member or via reservation form mailed to all members.

Papers for Annual Fall Meeting

The annual regional meeting of the Society of Petroleum Engineers of the AIME will be held on October 20-21, 1960, at the Huntington Sheraton Hotel in Pasadena.

If you wish to submit a paper for presentation, send a copy of the manuscript or an abstract of the proposed paper now to D. S. Nutter, Shell Oil Company, 1008 West 6th Street, Los Angeles 54, California.

Long Beach D. & D. Club Meets May 18

Recently home from the Regional meeting in Sacramento, Long Beach Desk and Derrick Club president Marian Ramsaur (California Southern Oil Co.) will give highlights of the meeting to the local petroleum women at their dinner meeting Wednesday, May 18, at the Lakewood Country Club. Accompanying Miss Ramsaur on this trip were Juanita Daigle; Sarah Beth Smith (Baker Oil Tools, Inc.) Rose MacBride (Baker Oil Tools Inc.); Frances Walsh (Petrolite Corp.), and Dorothy Russell (Terminal Drilling & Production Co.).

Guest speaker for the evening will be Donald J. Dunlop, assistant to the general export manager of Baker Oil Tools, Inc. Mr. Dunlop joined this company in 1953 and started traveling for them in 1958. He has recently returned from Indonesia, and has chosen as his topic "Oil and Indonesia." In his talk he will discuss people, economic conditions, oil companies and their operations.

Door Prize Chairman, Bea Perry Allen (Centrifugal Casting Co.) has announced this month's donation is through the courtesy of California Production Service.

D & D Club of North America Annual Convention September 23-24

Horizons unlimited has been selected as the theme for the ninth annual convention of the Association of Desk and Derrick Clubs of North America to be held at the Sheraton-Cadillac Hotel in Detroit, Michigan, on September 23-24. Approximately 1,000 members, representing the 115 clubs in the United States, Canada, and Hawaii, are expected to be present when the two-day meeting convenes.

Plans are under way to present industry speakers, together with informative programs of special interest indicative of Desk and Derrick's second decade.

Miss Sarah Anderson, Wayne Oil Company, is serving as Chairman of the General Arrangements Committee, with Co-Chairmen Miss Jean Mortimer and Miss Helen Kennerly, Standard Oil Company, all of whom are from Detroit, the hostess club.

International Oil Scouts Meet in L.A. June 16-18

An estimated 450-500 oil scouts will attend the three-day convention of the International Oil Scouts Association that opens June 16 at the Biltmore Hotel in Los Angeles.

Scouts are expected from throughout the United States, Canada, Mexico and South America, according to Henry Charles, Humble Oil & Refining Company (Los Angeles), scout and convention manager.

Speakers at the June 17 sessions will include W. M. Jacobs, executive vice president, Pacific Lighting Corporation, and senior vice president, Pacific Lighting Gas Supply Company; Leo Newfarmer, manager of exploration, Pacific Coast Area, Shell Oil Company; Joseph Shell, speaker, House of Representatives, State of California; Paul Sullivan, vice president, Bank of America (oil division); Vernon Taylor, director, Imperial Oil, Ltd., Toronto, Ontario, Canada; Ray Walters, former exploration manager, Standard of France, retired.

The June 18 session tentatively includes a morning business session and a tour of Disneyland in the afternoon.

The oil scouts trace their history back to the drilling of the Drake well in 1859. Today's scout is an important link in the communication system of every oil company exploration department.

Often referred to as "The eyes and ears of the oil business," the scouts organized officially as the National Oil Scouts Association in 1923. At about the same time, a Mid-Continent Oil Scouts and Landmen's Association was formed in Oklahoma. The two groups later merged.

Members of the present executive board of the association are W. J. Garrison, Humble Oil and Refining Company (Houston, Texas), president; Pat Sullivan, Sun Oil Company (Casper, Wyo.), first vice president; Henry Charles, Humble Oil and Refining Company (Los Angeles), second vice president; D. I. Fahrny, Phillips Petroleum Company (Amarillo, Texas), third vice president; W. E. Florey, Jr., The Superior Oil Company (Tyler, Texas), secretary-treasurer; Harvey E. Boos, Amerada Petroleum Corporation (San Antonio, Texas), editor-in-chief of the yearbook. Jack Wiggins, Austin, Texas, is the association's executive secretary.

HEAD NOMADS—Nomads National Board of Regents has elected its Los Angeles regents to head the organization for 1960. In the center of the picture is Robert P. Gaylord (Wagner-Morehouse, Inc.), Chairman. On the left is Earl M. Daniels (Hydril Co.), Secretary. On the right is Tom R. Ashe (Globe Oil Tools), Treasurer.

Awards Presented At Petroleum Geologists And Mineralogists Meeting

Robert L. Folk Receives President's Award

Robert L. Folk, associate professor of geology, University of Texas, Austin, receives President's Award, Lewis G. Weeks, president of The American Association of Petroleum Geologists announced. Formal presentation of this award, consisting of a certificate and $100 in cash, was made April 26, 1960, at the Association's 45th annual convention in Atlantic City, New Jersey.

Study of 500-Million Year Old Trilobites Wins Best Paper Award

How 500-million-year-old trilobites can aid in the search for oil is the subject of the paper selected for Best Paper Award in the **Journal of Paleontology** for 1958, Samuel P. Ellison, President of the Society of Economic Paleontologists and Mineralogists announced.

Mrs. Christina Lochman-Balk and James Lee Wilson received the award for their paper entitled, "Cambrian Biostratigraphy in North America," published in the Society's bi-monthly Journal of Paleontology, Volume 32, Number 2 (March, 1958). Mrs. Balk is professor of geology at the New Mexico Institute of Mining and Technology, Socorro, and Mr. Wilson is a research geologist for Shell Development Company, Houston, Texas.

Study of Fossil Bones Wins Best Paper Award

Dinosaurs and their relatives are no mystery to John A. Wilson, professor of geology at the University of Texas. A study of the usefulness of fossil bones in unraveling earth history has won the award for Best Paper presented at the 1959 meeting of the S.E.P.M., held in Dallas.

Salt Deposit Study Wins Best Paper Award

A study of the significance of the distribution of salt deposits was selected for Best Paper Award in the Journal of Sedimentary Petrology for 1958, Samuel P. Ellison, President of the Society of Economic Paleontologists and Mineralogists announced.

Louis I. Briggs, associate professor of geology at the University of Michigan, Ann Arbor, received the award for his paper entitled, "Evaporite Facies," published in the Society's quarterly publication, the Journal of Sedimentary Petrology, Volume 28, Number 1 (March, 1958).

Annual Meetings of Petroleum Geologists and Economic Paleontologists And Mineralogists Held in Atlantic City

"Oil Finders" Briefed on Mohole Project

"Oil Finders" at the annual meeting of the American Association of Petroleum Geologists on April 28, were briefed on the scientific objectives of "Project Mohole," an attempt to drill a hole thousands of feet below the ocean floor to obtain sample of the rock beneath the earth's crust.

The Mohole will be drilled in either the Atlantic or Pacific Ocean basin where the crust is thin enough to be penetrated. The operation will be conducted by the AMSOC Committee of the National Academy of Sciences from a drilling barge especially modified for very deep water operation.

Dr. Harry H. Hess of Princeton made predictions of what the scientists will find when they examine samples from various levels above and below the crust. Henri-Georges Doll, Schlumberger Well Surveying Company, discussed the possibilities of obtaining other data from the Mohole, such as the amount of natural radioactivity, density, porosity, and sonic velocity, by means of electrical equipment now commonly used to record data in oil wells.

Scientists Probe Genesis of Oil

What is oil? How is it formed? When scientists have the answers to these questions, they may be able to synthesize it and assure an ample, never ending supply for the whole world.

"Oil Finders" of the American Association of Petroleum Geologists and the Society of Economic Paleontologists and Mineralogists meeting on April 27, heard Dr. K. O. Emery of the University of Southern California discuss the preservation of organic matter, including the parent materials of oil, produced by phytoplankton, microscopic plants living on or near the surface of the ocean. In the Los Angeles Basin far more organic matter was produced and deposited than was required to form petroleum.

Nevertheless, Dr. Emery said, petroleum is presently being produced from the Los Angeles Basin at a rate that appears to be 150,000 times as great as its rate of formation.

Scientists in many fields brought new light to bear on the questions, "What is Oil?" How is it formed?"

OFF TO EUROPE—Mr. and Mrs. Helge Laursen are pictured with their family just before boarding an SAS transpolar flight to Europe. Laursen is chief geologist, Spanish Sahara, for Tidewater. Their itinerary includes Copenhagen, Madrid and Paris.

World Oil Frontiers Expanding

The sun never sets on free world "Oil Finders," and neither arctic cold nor tropic heat stays them from their appointed rounds.

Members heard reports on frontier regions in world oil exploration from the Canadian arctic islands to the South American jungles and from the Libyan desert to the uninhabited regions of Western Australia.

There are good possibilities that oil may be found inside the Arctic Circle, according to R. Thorsteinson and E. T. Tozer of the Geological Survey of Canada. And Joel J. Lloyd of the Union Oil Company of California reported good possibilities for finding new oil fields in Guatemala. Other scientists reported the likelihood of establishing producing fields in Bolivia and Columbia.

The geological exploration of Libya, where new fields are being opened, was outlined for the Oil Finders by Mauro Beltradi, Gulf Oil Company of Libya, and Pierre F. Burollet, Compagnie des Petroles Total (Libye). Beltrandi and Burollet point out that large portions of Libya are still to be tested by drilling, but that two large basins have been mapped.

Western Africa, too, may soon be adding to the world's known petroleum reserves. A first gas well was drilled near Dakar in 1959 after exploration of the Senegal area by French geologists, who also report good prospects for further discoveries in the Ivory Coast and in Ghana.

Although there is as yet no commercial oil field in Australia, about 1 million feet of exploration drilling has been completed in Australia and Papua-New Guinea. M. A. Condon of the Australian Bureau of Mineral Resources reported that petroleum source beds and shows are known in many basins, but that geological conditions for accumulation have not been established.

Los Angeles D. & D. Club To Hear Max Lorimore

Max Lorimore, Comptroller of the Union Oil Company of California, will speak on "Oil Company Annual Reports" at the regular monthly dinner meeting of the Desk and Derrick Club of Los Angeles, May 17, 1960, 6:30 P.M., at the Biltmore Hotel.

Lorimore, native of Wales, British Isles, graduate of Harvard Military School, Los Angeles, has a most interesting background in the oil industry. He is presently a member of the Controllers Institute of America, serving as Director and Treasurer of the Los Angeles Control; is also a member of the Petroleum Accountants Society, the U.S.C. School of Commerce Associates and the Santa Monica Republican Club.

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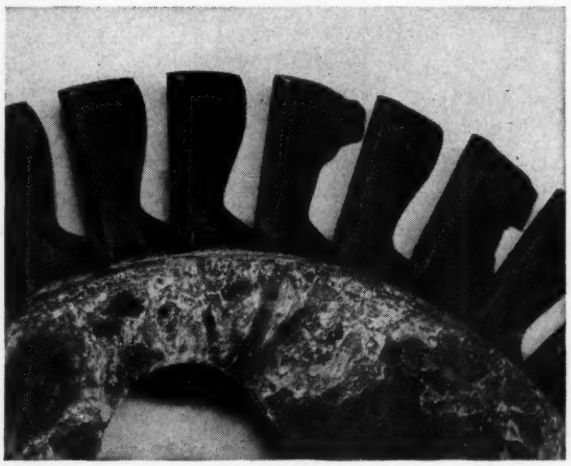
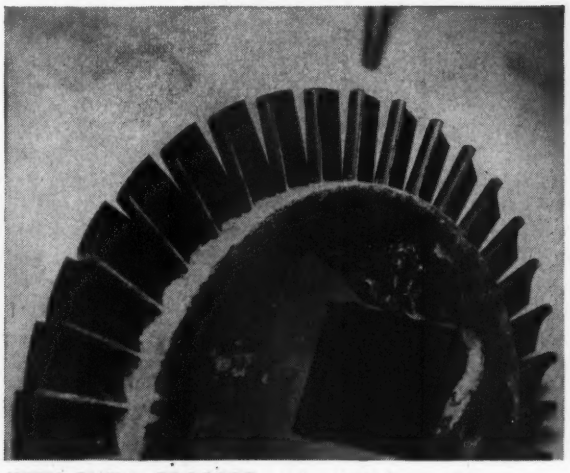
NEW SHELL POWER RECOVERY PROCESS CUTS CRACKING COSTS

Shell now offers a way to run power recovery turbines on waste energy. The key to this process is a simple, effective fines separator that protects gas turbine blades to obtain long turbine life. Look at these unretouched photographs.



WITHOUT SHELL PROCESS—Turbine nozzle blades after only 650 hours of operation.



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Personalities IN THE NEWS

D. G. Couvillon

New Land Department For Standard Headed By D. G. Couvillon

Standard Oil Company of California, Western Operations, Inc. recently announced establishment of a new land department and appointment of **D. G. Couvillon** as its general manager. The new department consolidates the activities heretofore carried on by Western Operations real estate and right-of-way department, land division of the exploration department and contracts division of the producing department.

Standard explains the land department was created to provide more specialized attention to land and right-of-way matters and to facilitate effective coordination of land functions previously carried on by separate parts of the Company.

Prior to his new assignment, Couvillon was superintendent of land and services for The California Company, Standard's subsidiary headquartered in New Orleans. He joined that Company in 1943 as a leaser.

Named managers of divisions in the land department were **W. H. Savage,** land acquisition; **G. S. Schroeder,** contracts and **D. B. McHenry,** real estate and right-of-way. All carried on these same functions separately under the previous organizations.

Magruder Named Assistant To President of Mobil Oil Principally for Pacific Coast

P. S. Magruder has been named assistant to the president of Mobil Oil Company.

Magruder, executive vice president of General Petroleum Corporation until the merger of that company with Mobil, will serve as the personal representative of Mobil's president, **Herbert Willetts.** He will reside in Los Angeles and will be principally concerned with the Pacific Coast area.

Magruder will be proposed by Mobil to fill the vacancy on the board of directors of Western Oil and Gas Association created by the retirement of Robert L. Minckler, senior vice president of Mobil. He will also represent Mobil on the board of governors of the Pacific Oil Institute and other business and industry groups in the West.

A native of Texas, Magruder joined General Petroleum in 1925. He was named manager of manufacturing and elected a director in 1945. He became a vice president in 1946 and executive vice president in 1948.

Active in the petroleum industry, Magruder is one of the founders, a past president and a director of the California Natural Gasoline Association, a member of the board of councilors of the American Petroleum Institute.

P. S. Magruder

Since 1955 he has been president of the Kettleman North Dome Association. He is a former chairman of the Air Pollution Control Committee of Western Oil and Gas Association.

Magruder is a member of the Los Angeles Chamber of Commerce, the California State Chamber of Commerce, a director and vice president of the California Manufacturers Association and a member of the Los Angeles World Affairs Council.

Magruder also is active in youth welfare work and is a former president of the Los Angeles Area Council of the Boy Scouts. In 1956 he was presented the Silver Beaver, scouting's highest adult award. In 1957 an elementary school was named in his honor in Torrance (Calif.) where a Mobil refinery is located.

A member of the Los Angeles Rotary Club, Magruder is a member and past president of the Los Angeles Petroleum Club, a member of the California Club, the Los Angeles Country Club and Al Malaikah Temple of the Shrine.

Mr. and Mrs. Magruder have two children, Philip Jr. and Mrs. Marie Rodriguez and three grandchildren.

Wallace McDivitt

McDivitt Named Manager Of Ken de Venezuela

Announcement was made recently by **Neal Thompson,** president of Ken de Venezuela, that **Wallace McDivitt** has been appointed general manager. McDivitt was previously manager of the Eastern Venezuela division with headquarters at Anaco. He was transferred to Venezuela in 1958.

Thompson also announced that **E. P. Bud Hayes, Jr.,** will be the new resident engineer for Ken de Venezuela at Anaco. **A. F. Bud Walden** will continue as manager of the Western division with headquarters at Maracaibo.

Ken de Venezuela is the representative for Ken Corporation in Venezuela, Trinidad and Colombia. Ken Corporation, with headquarters in Long Beach, California, manufactures oil base drilling fluids.

Union Announces New Appointments

Harold H. Stream has been appointed manager of lands, and **Burton D. Thorpe** has been named assistant manager of lands for the Pacific Coast Division of Union Oil Company of California, **Basil Kantzer,** vice president of exploration, announced recently. The appointments become effective immediately.

Stream, who has been with the company for the past 14 years, previously served for two years in the division as assistant manager of lands. Thorpe was division landman for Union since 1956 headquartered in Santa Paula, California. He joined the company in 1948.

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3 Personnel Promotions Announced By BJ Tools

Promotion of three BJ tool sales personnel in the Mid-Continent region has been announced by **R. J. Evans, Jr.,** vice president and domestic sales manager of Byron Jackson Tools, Inc., a Borg-Warner subsidiary.

John P. Kirby has been appointed product sales manager for BJ Tubing Swabs. He was formerly district manager of District 41 (south-east New Mexico and west-central Texas) and city sales representative for the Dallas-Fort Worth area. A 12-year veteran of BJ Tools, Kirby will continue to headquarter in Fort Worth.

F. J. (Jack) Gray moves from Odessa (Texas) to become city sales representative for the Dallas-Fort Worth area. Gray has been a BJ Sales Representative in Odessa since joining Byron Jackson in 1955.

V. J. (Jack) Carter has been named manager of District 41. A former BJ Sales Representative in Hobbs (New Mexico), he recently moved to Odessa to act as Sales Supervisor for the West Texas-New Mexico Area. Carter, who joined Byron Jackson in 1951, will contine to cover his district from Odessa.

John P. Kirby

James B. Hill

Hill Appointed President Of Pacific Mud Co. by Magcobar

James B. Hill, long active in the California drilling mud industry, has been appointed president of Pacific Mud Company, California affiliate of Magnet Cove Barium Corporation (Magcobar), effective immediately, **I. W. Hoskins,** senior vice president-marketing of Magcobar, announced.

Pacific Mud markets and services Magcobar's complete line of drilling mud products in all native drilling areas of California. Its present headquarters are at Los Angeles.

Hill succeeds **James R. Homan,** who has been transferred to Magcobar's Foreign Operations Department.

Cooper Named Sargent Vice President

Roy F. Cooper, for the last thirteen years chief engineer of Sargent Engineering Corporation, with headquarters in Huntington Park, California, has been appointed vice president-engineering, according to **E. J. "Ted" Sargent,** chairman of the board.

A specialist in hydraulic, pneumatic and mechanical components and systems, Cooper has supervised development of numerous new techniques. He had the engineering responsibility for the design and development of the Sargent rodless hydraulic deep well pumps.

Changes Among Top Officers Announced by Union Oil Co.

Changes among top officers of Union Oil Company of California became effective April 27, following an organization meeting of the company's board of directors held subsequent to the annual meeting of shareholders at which all directors were re-elected.

Reese H. Taylor, chairman of the board since August 1, 1956, was re-elected to that position and in addition was elected president, an office he held from October 24, 1938 until he was made chairman.

A. C. Rubel, president since August 1, 1956, was retired upon reaching the company's mandatory retirement age of 65 years but will continue active association with the corporation as a director and member of the executive committee.

Dudley Tower, senior vice president, was elected executive vice president and will continue to serve as a director and member of the executive committee.

John W. Towler, director of manufacturing, was elected a vice president.

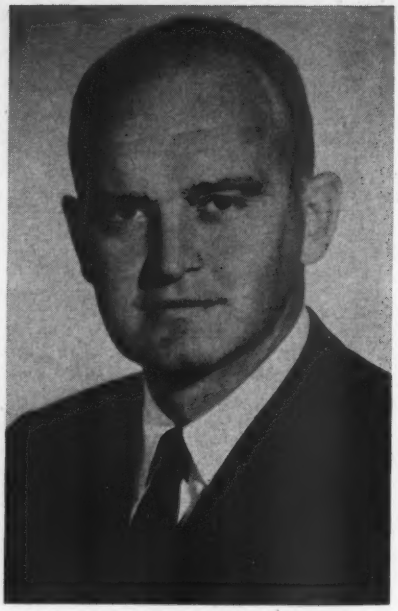
N. T. Ugrin, director of industrial relations, was elected a vice president.

Morley E. Joyce, supervisor of financial accounts, was elected assistant comptroller, succeeding R. E. Dalbeck who becomes director of the Budget Control Department.

Honolulu Oil Co. Appoints F. H. Lacy, Jr., Manager Of Gas Division

W. H. Kraft, executive vice president-manufacturing and administration of Honolulu Oil Corporation, announces the appointment of **F. H. Lacy, Jr.** to the position of manager, natural gas and gasoline division. In this capacity, Lacy will supervise plant and allied operations throughout the Division.

Lacy entered the employ of Honolulu Oil Corporation in 1949 as an engineer in the natural gas and gasoline department in the San Francisco office. He was promoted to chief engineer of the natural gas and gasoline department in April, 1957, which position he held until his promotion on May 1, 1960, to manager, natural gas and gasoline division.



Richard M. Chewning

Republic Supply Co. of Calif. Names Chewning Vice President And General Sales Manager

Richard M. Chewning has been named vice president and general sales manager of The Republic Supply Company of California, President **John J. Pike** has announced.

Chewning, who has been with Republic for eighteen years, was vice president in charge of the company's Southern Division. Republic is a major West Coast distributor of metals, industrial and water works supplies, pipe, tubing, and oil field equipment.

SAS DC-8 Makes Fastest U.S.-Scandinavia Flight

A Scandinavian Airlines System DC-8 jetliner, "Dan Viking," flew nonstop Sunday April 3, from New York to Copenhagen in seven hours 41 minutes; the fastest flight ever with a commercial aircraft between the United States and Scandinavia.

The first of seven DC-8s to be delivered to the airline, "Dan Viking" carried 58 Douglas and SAS personnel on its historic, record-breaking crossing.

SAS will introduce DC-8s on its North Atlantic service on May 1. On June 1, transpolar service begins from Los Angeles to Europe using the DC-8s.

Continental Oil Company Promotes Three in Los Angeles

Promotion of three men to key positions in Continental Oil Company's western region exploration department was announced recently by **Olen Lane,** vice president. The three men, all of whom will make their headquarters in Los Angeles, are:

L. E. Graham, Los Angeles, western region land superintendent, promoted to the newly created position of special representative for the region's exploration department.

Hanes M. Dawson, Fort Worth, Texas, assistant land superintendent, southwestern region, promoted to western region land superintendent, succeeding Graham.

L. L. Dodds, Los Angeles, assistant land superintendent, western region, promoted to the newly created position of regional title supervior for the western region.

New Appointments Announced By Welex, Inc., of Fort Worth

Appointment of two area sales managers and expansion of two divisions have been announced by Welex, Inc., wireline service company.

Named Rocky Mountain area sales manager in Denver was **F. D. "Buzz" Sawyer,** former Rocky Mountain division manager. Former City Salesman **J. E. Grady** was promoted in Dallas to area sales manager.

Welex's West Texas-New Mexico division, headed by Division Manager **W. O. Satterwhite** in Midland, was expanded to include the company's Farmington, New Mexico, station.

The Kansas division, headed by Division Manager **Pat Wagstaff** at **Wichita,** was enlarged to include the company's Kimball, Nebraska, location.

Richfield Oil Corporation First Quarter Report

Richfield Oil Corporation reports net income after all charges for the first quarter of 1960 of $6,994,609 compared with $5,585,172 for the first quarter of last year. This is equivalent to $1.73 per share for the 1960 period compared with $1.39 per share for the 1959 period based on average number of shares outstanding in the respective periods.

Standard Oil of Calif. Announces 1st Quarter Income

A quarterly dividend of 50 cents a share was declared April 28 by directors of Standard Oil Company of California. The dividend, No. 137, is payable June 10 to stockholders of record May 10.

Board Chairman R. G. Follis reported net income for the first quarter of 1960 as $60,727,978, or 96 cents a share, against $57,596,548, or 91 cents a share, for the equivalent quarter of 1959.

Follis attributed the 5 per cent earnings gain to improved Western Hemisphere income, resulting primarily from increases in the Company's domestic production of natural gas and crude oil and from higher petrochemical sales.

Highlight of the Company's activities during the quarter was an important oil discovery on the Standard-Richfield Unit of Alaska's Kenai Peninsula. Completion of tests on the discovery well indicate it has an excellent potential, the Chairman said, considerably strengthening expectations for major oil development in the area.

The discovery has boosted Standard's Alaska production sufficiently to justify construction of a $4,000,000 pipeline and marine terminal, Follis said, enabling the first full-scale commercial oil production in Alaska's history.

Parsons and British Firm Join In New Venture

Formation of Parsons Powergas, with headquarters in London, has been announced as a joint enterprise by The Ralph M. Parsons Company, Engineers-Constructors of Los Angeles and P-G Engineering Limited, a member of The Power-Gas Group, an organization of British companies founded in 1901. Complete engineering and construction of petroleum, petrochemical, and related plants will be performed by Parsons Powergas, backed by the combined resources and experience of the parent companies.

Initially, activities will be concentrated in the British Commonwealth. The two firms will each appoint three men to a committee which will direct the new enterprise. Parsons has named Vice Presidents Harry Broom and Robert V. Peaslee, and Ahmet Neyzi, European operations manager, to the committee.

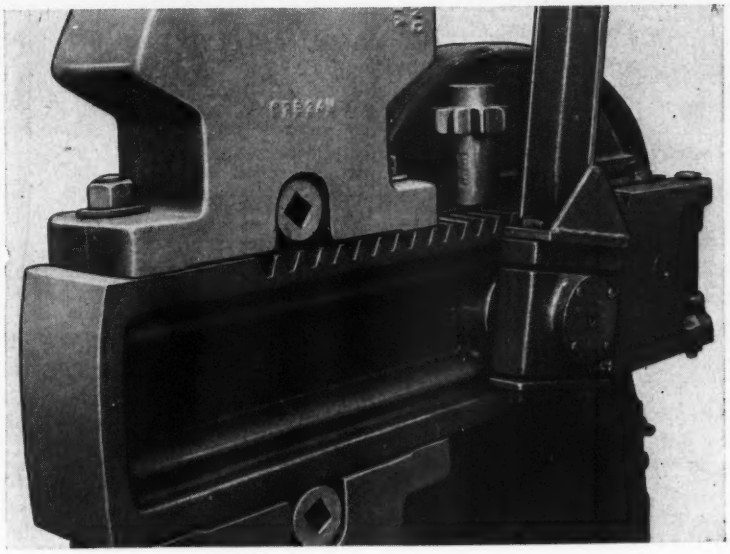
S.O. Starts Laying Submarine Pipe Lines

Contractors began laying submarine pipelines from the present Summerland offshore oil drilling platform to the site of the second platform on May 2, Standard Oil Company of California, Western Operations, Inc. disclosed.

The new platform on the lease jointly held by Standard and Humble Oil and Refining Company is to be erected 2 miles offshore in the Santa Barbara Channel and a mile and a half west of the existing structure in water 107 feet deep.

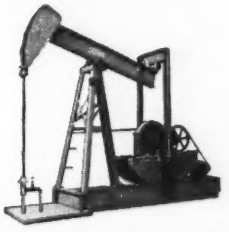
Fabrication of the tower is nearing completion in San Pedro and the prefabricated tower will be towed to the site, up-ended and anchored to the ocean floor during June.

The tower deck, being fabricated in three units at San Diego is essentially complete. Installation of decks and outfitting of the platform for operation will take place in late June and in July.



The simple rack-and-pinion system on the JENSEN Rotary Balanced JACK can be adjusted by one man—standing on the ground. Provides a smoother stroke throughout the pumping cycle. Assures longer, trouble-free service from sub-surface equipment as well as the pumping unit. Uses less power too! It will pay you to investigate—let us tell you of the benefits obtained by present users!

This is Jensen's ONE MAN ADJUSTMENT



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JENSEN JACKS

Cal Research Corp. personnel, (L to R) Bill Stewart, Bob Stone, Bill Sytx, George Denison and Hugh Macpherson, discuss motored engine data showing TML becomes more effective in suppressing preflame reactions as compression ratio is raised.

Union Oil Earnings Up; More Funds for Developing Gas and Oil Reserves

Union Oil Company of California's earnings for the first quarter of 1960 were $5,530,000, or $.65 per share, compared with $4,890,000, or $.57 per share for the corresponding three months of last year—an increase of 13%, Reese H. Taylor, chairman of the board, reported April 25 at the annual share owners meeting in Los Angeles.

"Although retail price uncertainty makes accurate forecasting difficult, we do think the combination of improved inventory situation and increased revenue from natural gas sales will raise Union Oil's 1960 earnings over those of last year," said Taylor.

Taylor pointed out that while in 1955 the company's natural gas sales were less than $10 million "we expect the 1960 total to be about $34 million and by 1965 exceed $50 million. Consequently, natural gas will be a major contributor to future profits."

Union's gross revenues for the first quarter were $123,209,000 compared with $118,647,000 for the same period last year.

Union, Taylor told shareowners, expects to increase its capital budget to about $110 million, *with approximately 70% of this to be invested in looking for and developing additional oil and gas reserves.* The remainder will be used mainly for new refinery units and further expansion of marketing outlets.

Halliburton Introduces New Fluid Loss Agent

Extended fractures and deeper sand penetration with water and acid base fracturing fluids are possible now with WAC-8, a multi-purpose fluid loss agent being introduced by Halliburton Oil Well Cementing Co. Fluid retention properties of this Halliburton-developed chemical approximate 20-25 ml in 30 minutes.

WAC-8 was developed when researchers sought a fluid loss agent that would permit fracturing highly permeable formations that had been treated earlier with little or no success. For most formations WAC-8 can block the fracture face temporarily and make it possible to treat with less pressure and reduced pumping horsepower requirements. This is because WAC-8 imparts non-Newtonian properties to the base fluid which result in greatly improved friction loss characteristics.

The material may be used with either batch or continuous mixing operations in strong or weak acid solutions, fresh or brine water. WAC-8 is compatible with most surfactants used in water or acid base fluids. One of the components of WAC-8 helps to destroy its effect after the treatment is completed.

Recommended concentration of this non-toxic, readily dispersible chemical is 15-20 pounds per 1,000 gallons of water and 8-12 pounds per 1,000 gallons of acid. WAC-8's cost is competitive with other fluid loss agents now in use.

Standard Introduces New Antiknock Compound

The first new commercial antiknock compound developed by the petroleum industry in 38 years, has been announced by Howard G. Vesper, president, Standard Oil Company of California, Western Operations, Inc. The new compound will be known by the trade-mark "Methyl," and will be used exclusively in the Company's three Chevron gasolines.

"For many years our subsidiary, California Research Corporation, has sought a more efficient antiknock agent for gasoline," Vesper reported. "This has been important because today's engines demand an antiknock compound that can withstand temperatures and pressures several times greater than were used in automobile engines in 1922 when the first antiknock fluid was introduced.

"Methyl steps up octane performance so effectively that it stops power wasting knock better than any other antiknock compound for both new and older cars. In addition to extensive tests in California Research Corporation Laboratories, Methyl has been proved in more than 2½ million miles of road service," Vesper explained.

On Monday, April 25, Standard started marketing gasolines containing Methyl at Standard Stations and Chevron dealers at no increase in price.

Conoco to Have World's Second UOP Hydrar Unit

Construction in Ponca City, Okla., of the world's second Hydrar unit has been announced by Continental Oil Company. The unit will use Universal Oil Products Company's new process for conversion of benzene into high purity cyclohexane. Procon Incorporated, Des Plaines, Ill., construction company, is building the unit.

Completion of the unit, expected in September, will make Conoco the first commercial producer of synthetic cyclohexane in Oklahoma. Benzene feed stock and hydrogen for the Hydrar unit will be supplied by Conoco's catalytic reformers.

First use of the UOP process is at Gulf Oil Corporation's Port Arthur, Tex., refinery, where Procon also built the Hydrar unit.

RIG-UP FASTER.. MAKE HOLE SAFER

with CONTINENTAL-EMSCO B-SERIES PORTABLE MASTS

FASTER — Continental-Emsco's B-Series Masts shorten rig-up time to a minimum. Exclusive rear leg pivot permits time-saving low-level assembly.. even with high substructure no ramps are needed. Mast sections and crown assembly quickly go together with simple pin connections.

Mast raises smoothly, safely in one continuous operation. There's no need for snubbing lines, since C-E's B-Series masts never go over center.. raising lines remain in tension at all times during raising or lowering. Masts can be moved in one piece or knocked down into easily portable sections.

SAFER— All load bearing base connections are at floor level and can be readily seen by the driller. Leveling, to correct substructure settlement, is quick and easy. Driller has a clear view to top of mast, since interior and skew bracing is kept to a minimum. C-E's mast design allows maximum block travel for faster, safer hoisting.

All C-E masts meet API specifications for hook load and substructure capacity. Wind load capacity is 75 mph with full setback of pipe.

Contact your local C-E representative for full details.
Continental-Emsco Masts are also available through leading supply stores.

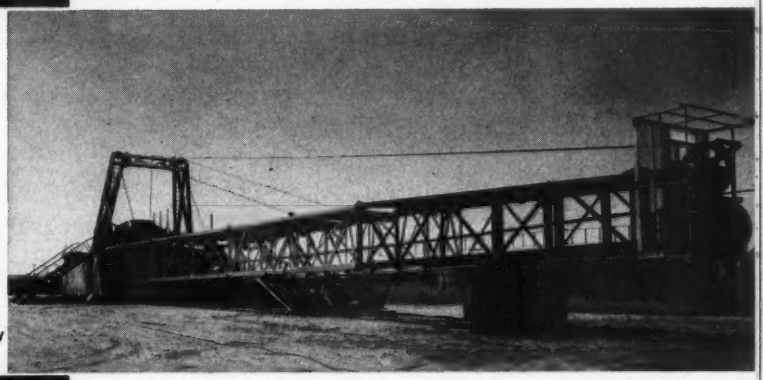
Choose your next mast from one of these..

B-127
Clear Height 127',
Nom. Gross Capacity
416,000 lbs.

B-133
Clear Height 133',
Nom. Gross Capacity
590,000 lbs.

B-134
Clear Height 134',
Nom. Gross Capacity
830,000 lbs.

B-142
Clear Height 142',
Nom. Gross Capacity
1,053,000 lbs.



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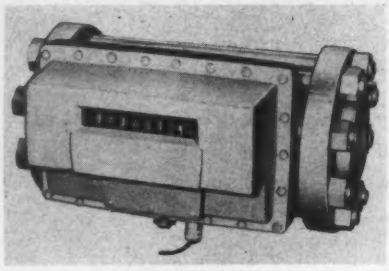


New Mass Flowmeter for Natural Gas

New Mass Flowmeter For Natural Gas Announced

Black, Sivalls & Bryson, Inc., announces the market availability of the new mass flowmeter for natural gas, as jointly developed by BS&B and the General Electric Company. Models are also available for industrial gas and ethylene gas applications.

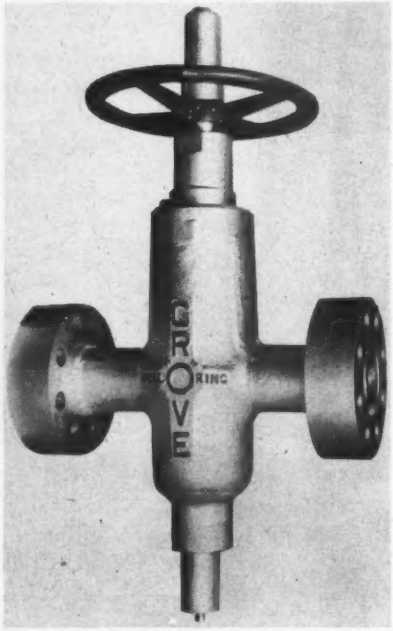
The revolutionary but practical "true mass" flowmeter makes possible the measurement of gas directly in pounds, eliminating calculations for conversion of volume to weight. Performance of this new flowmeter has been proven by BS&B with the first known positive prover for gases. Additionally, prototype production units have been successfully field tested on seven gas production and transmission locations over a period of time dating from January, 1959.

A broad range of applications is forecast in the gas industry from the well-head to distribution systems. Use of the new instrument should substantially cut costs of computing operations required in measurement by volume. This device—sensing mass directly—requires no in-between calculations, is completely self-contained, weighs only about 100 pounds and is designed for long maintenance free operation.

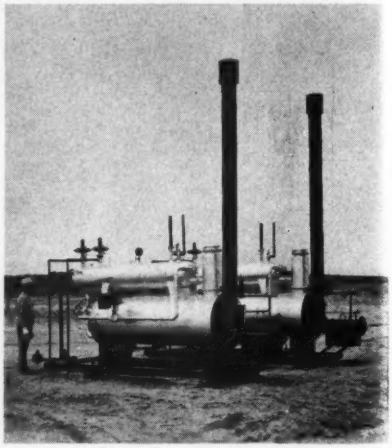
Many industries now use the pound as a fluid measure for figuring costs, regulating, blending, measuring yields and other purposes. Inherent simplicity and the high accuracy—within one percent of reading—under changing conditions, makes the mass flowmeter well suited for these operations. Before the development of the mass flowmeter, the volume of the fluid flow was measured and converted to mass by time-consuming computations that left wide margins for error, or by complex automatic correction systems that added to maintenance burdens.

The flowmeter can be designed into remote controlled systems. Electrical pulses, each representing a given rate of flow, will operate remote recording dispatching and accounting systems.

The new mass flowmeter utilizes a sensing device that consists of a constant speed impeller and a stationary turbine arranged for axial flow. The impeller gives a twist to the fluid stream and the fixed turbine straightens the stream. The torque exerted on the turbine is proportional to the mass rate of flow. A small gyroscope automatically totalizes the flow by integrating the torque with respect to time, permitting the output to be continuously summed up on a dial reading in pounds.



NEW BALANCED STEM VALVE, produced by Grove Valve and Regulator Company, of Oakland, Calif., provides extreme ease of operation for Christmas tree and general high pressure service. Valve requires no lubrication, is available in sizes of 1 5/8", 1 13/16", 2 1/16", and 2 9/16".



New Gas-Condensate Production Unit

National Offers New Production Package

A new gas-condensate production unit is available from National Tank Company, Tulsa, Oklahoma. Called the Thermosiphon Stak-Pak, the new prepiped, skid-mounted unit combines any National two or three-phase horizontal separator together with any size Indirect Heater. Design features include a Flame Arrestor which permits grouping a heater and a separator on the same skid together with automatic instrumentation; thermosiphon feature places heat-on-demand in the base of the separator; non-freeze type liquid valves; and liquid level controls with sight glasses.

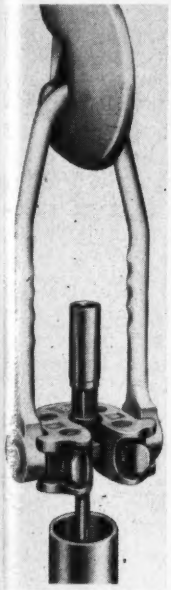
The separators are code constructed and stamped with code required relief valves and safety heads. HI-LO pilot operated safety valves will shut off flow as well as fuel to burner in case of emergency. Return bends of heating coils in indirect heater are safety drilled.

In moderate climates such as Oklahoma, Kansas and Texas, no housing or insulation is needed.

Tank Topics, March, 1960, gives full details and colored flow diagram.

No-Kink Rod Elevator Unveiled by BJ Tools

A new Rod Elevator that will not bend or kink sucker rods even under the heaviest loads has just been placed on the market by Byron Jackson Tools, Inc., according to an announcement by Robert Harcus, vice-president and general manager of the Borg-Warner subsidiary.



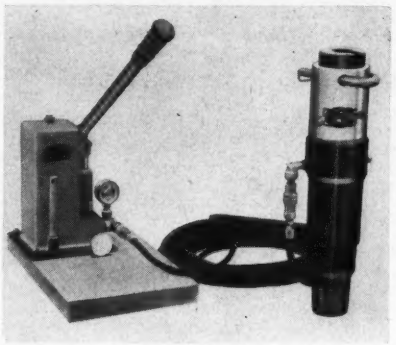
No-Kink Rod Elevator unveiled by BJ Tools

While retaining the proven arrangement of a reversible U-shaped body pivoted in the elevator bail, the new body design of the BJ Elevator employs stops which prevent rotation about the trunnion under load. The entire string is always freely supported in the body seat in line with the lifting load so that there is no possibility of kinking rods even under the heaviest loads.

The bail, which is freely pivoted, swings out of the way or stops upright to receive the hook. The reversible type body has rod seats at the top and bottom, thus doubling the service life. There is no danger of dropping the string with the No-Kink Elevator, since the front latches must be opened by the operator before the rod can be released. Movement of the sucker rod against the front latches only closes them more securely.

The solid, one-piece body is designed to fit the taper of all makes of rods. The alloy steel body, forged-steel bail and latches are all heat-treated for maximum strength and wearing qualities. The No-Kink Elevator operates reliably with any make of hook.

This new BJ elevator is available in a Light Type for strings of average length and a Heavy Type for longer strings of rods. Both Light and Heavy Type elevators are made in 5/8"-3/4", 3/4"-7/8" combinations. The Light Type is also available in a 1/2" size; the Heavy Type Rod Elevator in a 7/8"-1" size.



Guiberson Type H hydraulic wire line oil saver.

Type H Hydraulic Wire Line Oil Saver

The Guiberson Corporation, one of the Dresser Industries, Dallas, Texas, announces availability of a new hydraulically operated wire line oil saver.

The Type H hydraulic wire line oil saver may be safely used in gun perforating and other wire line operations with maximum service at minimum cost.

New Micro-fossil Pick

Take a ten-cent ball point pen, a hypodermic needle, two feet of plastic hose and an eight dollar vacuum pump and you have an invention that spells progress for the oil industry.

The invention—called a micro-fossil pick—is guaranteed to make a paleontologist's life a little more pleasant, according to the inventor, E. H. Stinemeyer, Shell Oil Company's San Joaquin Division paleontologist in Bakersfield.

Stinemeyer devised the new tool to reduce the time involved in picking samples for fossil identification.

Micro-fossils—or "bugs" as they are known to paleontologists—are preserved unicellular animal life found in rock samples taken from wells or surface outcrop formations. By studying these fossils, paleontologists are able to determine the age of formations, whether the formation was formed in salt or fresh water, the depth of the water and other factors—all important in the complicated and expensive search for oil.

Until Stinemeyer's invention, "bug hunters" used to pick through crushed rock samples with a regular needle or

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You'll Be Glad

You Did

CAVINS

Cavins "Multi-Surge" Junk Snatcher
Hydrostatic-action recovers small junk with surge after surge in one run on either drill pipe or tubing.

Cavins Automatic Hydraulic Suction Bailer
For clean out work and small junk. Self-loading and self-dumping it is the fastest tool on a wire line.

Cavins Sand Pumps
For wire line clean out in wells having heavy or low fluid levels.

Cavins Dump Bottom
Continuous dumping of cement or chemicals. Has no ports or sleeves to foul.

Cavins Bridging Plug
Off-bottom bridge of drillable material. Self-engaging when released from Dump Bottom.

Cavins Depthometer
The original, fast and portable wire line measuring device. Does away with "stringing-in."

Advance Air-Powered Tubing Spider
The first and only complete Automatic Air-Powered Tubing Spider. Unequalled for speed, safety and performance under all conditions.

Consult Composite Catalog or write for descriptive literature.

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Taft: Main and Lincoln Sts., Phone ROger 5-5319
Santa Maria: 1767 Broadway, WAlnut 5-8711
Ventura: 1641 N. Ventura Ave., Miller 3-6767
Bakersfield: 130 E. Norris Road, EXport 9-3605

The ball-point pen that became a micro-fossil pick is examined by its inventor, E. H. Stinemeyer, right, Shell Oil Company's division paleontologist, and Robert E. Steinert, district paleontologist.

a fine brush looking for fossils—a task likely to ruffle at times the patience of the most persistent hunters.

The new micro-fossil pick accelerates the picking of samples for fossil identification, thereby allowing the paleontologist to assemble micropalentological slides more rapidly than before.

Here's how it works; the filler is removed from the ball point pen and the pen connected to the pump with the plastic hose.

A hypodermic needle is attached to the end of the pen to form a sorting pick. When the paleontologist observes a fossil he wishes to remove, he places his forefinger over a hole in the pen, thereby establishing a closed circuit on the vacuum; the fossil is sucked up the needle and into the fossil trap formed in the lower part of the pen where a 200 mesh screen prevents the bugs from being whisked into the vacuum pump.

To transfer the picked fossils, the pen is unscrewed and the needle, fossil-trap unit inverted and tapped and the "bugs" drop into a slide.

Stinemeyer calls the invention a real "Rube Goldberg" idea but points out that the new device has enabled his paleontologists and assistants to increase their work output considerably. By using different sizes of hypodermic needles, they are able to sort all sizes of bugs.

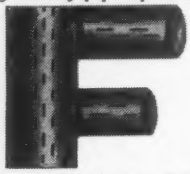
Stinemeyer's time-saving device has received wide acceptance in Shell Oil Company's San Joaquin Division. In fact, the micro-fossil pick will soon be standard equipment at the Company's paleo-laboratories throughout the Pacific Coast Area. And everyone agrees that its cost—$8.95 (including tax)—is a reasonable amount to invest in oil industry progress.

Pacific's "One Stop" Service for: Pipe

slotting on any size pipe up to 24" O.D.

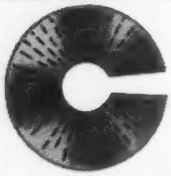
Fine Gauge, Straight, Keystone Slots; and

Threading on any pipe up to 8⅝" O.D.



Ventura Tool "Flush Joint" Thread . . .

A.P.I. "Round" and "V" Threads . . .



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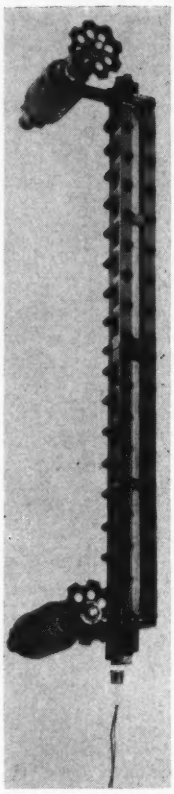
New Electrically Heated Gages

Electrically heated gauges of a new, improved design for increased efficiency are announced by Jerguson Gage & Valve Co. They are indicated for installations where there is a problem of heating various liquids to get an accurate liquid level and steam is not available. They are also very practical for installations where there is need for very close control of temperatures in the gage glass, as well as for cold weather applications to prevent gage freezing and breakage.

The design employs a cartridge heater with a ½" dia. stainless steel sheathed manganese-nickel wire. Each wire is insulated with silicone impregnated glass. They are equipped for 120 volts, AC, 60 cycle, with wattage output to meet requirements. They are



New Jerguson Electrically Heated Gage

also available with temperature control within the gage column.

The new gages are External Tube Models, either Reflex or Transparent type, and are equipped with electrically heated jacketed valves. They are available in explosion-proof construction where required, and can be provided to meet the requirements of the Underwriters' Laboratory. They are available in any material required to meet corrosive or other special conditions. Materials used conform to or exceed the requirements of A.I.S.I., A.S.T.M, and/or A.P.I.-A.S.M.E All gages and valves are rustproofed.

For complete details write Jerguson Gage & Valve Co., 80 Adams Street, Burlington, Massachusetts.

NEW LITERATURE

Booklet Describing Unit Pumpers

Continental-Emsco Co., has published a booklet describing its full line of unit pumpers including seven recently added sizes.

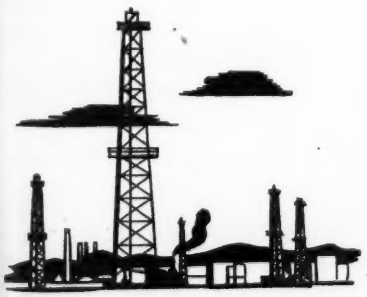
This brochure is complete with rating charts, dimensions and specifications. Illustrations include new design features, one-man counterbalancing method and typical prime mover mountings.

Also included is information on Load Multiplication Factor and its effects on power costs and wear.

Valves With Spherical Union Connections

Information on Spherical Union Connections, available as an optional feature on Jerguson Valves, is covered in Data Unit No. 377. These spherical unions compensate for up to 10° misalignment of vessel tappings in any direction from perpendicular axis and a wide variation in centers.

Write Jerguson Gage & Valve Company, 80 Adams Street, Burlington, Massachusetts.



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100 TO 6000 PSI 3 TO 76 GPM

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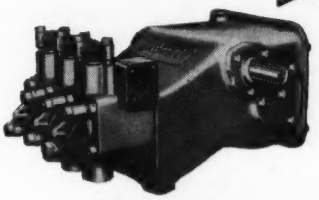

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★ Inside or outside packed
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★ Distortion-free cast iron housings maintain constant bearing alignment
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Send for complete information on John Bean High Pressure Pumps!

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INDUSTRIAL PUMPS

San Jose 1, Calif. Lansing 4, Mich. Dept. CO-3

New Brochure On Buttress Thread Casing Readied By Youngstown Sheet and Tube Co.

A comprehensive chart showing the minimum performance properties of buttress thread casing is featured in a new eight-page brochure by The Youngstown Sheet and Tube Company. It is available to jobbers and distributors for imprint.

Built to meet the requirements of deep-well drilling, Yongstown buttress thread casing offers thread design with flank angles of only three degrees, and couplings with enough length to engage threads to the last scratch.

Youngstown manufactures buttress thread casing in sizes 5½" through 9⅝".

The brochure details with illustrations the characteristics of the casing, outlines Youngstown's emphasis on quality control, and offers operators the assistance of the company's nine field engineers.

Copies of the brochure may be obtained from Advertising Department, Youngstown Sheet and Tube Company, Youngstown 1, Ohio.

Peerless Hi-Lift Pump Literally Squeezes Water Upward

A pump that uses a unique, positive displacement pumping action to literally squeeze water upward, is the subject of a newly revised bulletin issued by Peerless Pump, Hydrodynamics Division, Food Machinery and Chemical Corporation.

Trade named the "Hi-Lift," this pump employs a corkscrew-like rotor which rotates within a contoured stator. The action of the rotor creates a positive displacement action, moving a constant flow of water up to the surface.

Four series are currently available in the Hi-Lift pump. Capacities range from 500 to 3300 gallons per hour with lifts up to 1000 feet and pressures to 50 psi. Hi-Lift pumps will fit in wells with 4-inch inside diameter and larger. All types of drives may be used with this pump.

A comprehensive bulletin, No. B-142, illustrating the many features of the Hi-Lift, as well as containing many helpful points on evaluating water needs, may be obtained by writing to Peerless Pump, Hydrodynamics Division, Food Machinery and Chemical Corporation, 301 West Avenue 26, Los Angeles, California.

Field Development

Pacific Coast and "4" Corners

LOS ANGELES BASIN

Beverly Hills Well Pumping

Allen Guiberson completed his second well on the Beverly Hills High School property pumping 63 b/d of 26.4 gravity clean oil. The completion, Beverly Hills High School No. 2 is located near the intersection of Olympic Boulevard and Heath Avenue, was drilled to a total depth of 5774 feet, and cemented 7" casing at 5774. His first completion on the property is pumping 180 b/d of 26.4 gravity clean oil.

Sansinena Completion

Union Oil Company completed Sansinena No. 5B-92 flowing 786 b/d of 26.5 gravity oil with a cut of 1 per cent and 700 mcf of gas. Total depth of the well is 4505 feet with 7" casing cemented at 4495 feet and selectively perforated within the interval 2983-4495 feet. Surface location of the completion is in the southeast quarter of Section 30-2n-10w. This is the ninth completion on the Sansinena lease, and four of the nine wells have a potential in excess of 1000 b/d.

Imperial County Test Redrills

The H. W. Schafer Holtville area well, after deepening from 5708 feet to 8015 feet, was plugged back to 4650 feet and is redrilling below 4950 feet. Located in the southeast quarter of Section 16-16s-17e near the Mexican Border, the well was first drilled to 5708 feet by the Border Oil & Gas Company and suspended operations in 1958.

Rosemead Test For Humble

Humble Oil & Refining Company has staked location for Rosemead Oil Unit One No. 1 south and east of the intersection of the San Bernardino Freeway and Rosemead Boulevard in Section 19-1s-11w. The well will be a 7500 foot test and is approximately one mile east of the area where the company drilled San Gabriel Unit No. 1 and 2, recovering water and 2 b/d oil on pump tests.

Salt Lake Wildcat

Buttram Petroleum Company's Gilmore Island test, Gilmore No. 1, after cementing 13⅜" surface casing at 650 feet, is drilling ahead below 2500 feet. The test is located in the northwest quarter of Section 21-1s-14w, to the east of the Farmers Market. Shell Oil Company drilled and abandoned a test in 1942 at a total depth of 7924 feet, a short distance to the southeast.

Castaic Junction Completion

Humble Oil and Refining Company completed N. L. & F. No. 66 flowing 475 b/d of 32.2 gravity oil cutting 1 percent through a 3/16" bean with 1800 psi tubing pressure. The completion is the most northerly well in the field and is located in the southwest quarter of Section 18-4n-16w. The well was drilled to a total depth of 13,553 feet and cemented 5½" casing at 13,550 feet with perforations from 13,280-13,260 feet and 13,230-13,100 feet.

Beverly Hills Field

Universal Consolidated Oil Company is constructing its third drilling island on the 20th Century Fox studio property, north of Pico Boulevard and east of the west Studio property line. The Island will be 200 by 300 feet.

NORTHERN CALIFORNIA

Solano County Completion

Standard Oil Company's deep test of the Rio Vista field, Peter Cook No. 11, was taken over by the Amerada Petroleum Corporation and completed in the Emigh Zone flowing 675 mcf per day of gas from the perforated intervals 4230-4254 feet and 4265-4280 feet. Located in the southeast quarter of Section 18-4n-3e, the well was drilled to a total depth of 15,044 ft. by the Standard Oil Co.

Kadane Drills Solano County Test

Two and one-half miles northwest of the Maine Prairie Gas field, G. E. Kadane & Sons are preparing rig site to drill Maine Prairie Gas Unit No. A-1 in the northwest quarter of Section 20-6s-2e. Hagestad Drilling Co. has the contract to drill the well to approximately 7500 feet.

Two Gas Tests For Standard

Standard Oil Company has staked locations for two new wells on the Blewett Community lease in the Vernalis Gas field. Blewett Community No. 11 will be drilled in the northeast quarter of Section 27-3s-6e and No. 12 will be drilled in the northeast quarter of Section 23-3s-6e.

New Gas Field Recovery

Great Basins Petroleum Company completed Signet-Whiting No. 66-23 as a new gas field discovery flowing 3500 mcf of gas per day. Located in the southeast quarter of Section 23-2s-6e, five miles north of the Vernalis Gas Field, the well was drilled to a total depth of 6425 feet and has 4½" casing cemented at 6000 feet. Top of the Upper Tracy Zone was logged at 5941 feet.

Buckeye Outpost Gas Completion

Western Gulf Oil Company com-

pleted Wilkins Unit B No. 1 flowing 8450 mcf of gas per day through a ½" bean from the perforated interval 8156-8141 feet. Total depth of the completion is 8621 feet with 7" casing cemented at 8620 feet. The well is approximately 4000 feet southeast of company's area discovery well located in the southeast quarter of Section 3-13n-1w in Colusa County.

Sacramento County Wildcat Test

Amador Exploration Company is moving in rotary to drill R. L. Bottimore No. 1 located near Clay Station in the southeast quarter of Section 1-6n-7e. Barnes Core Drilling Co. has the contract to drill the 3000 foot test.

Arcady Drills Solano County Test

One mile east of the Maine Prairie Gas field, Arcady Oil Company is preparing to spud Liberty Farms No. 1-6 located in the southwest quarter of Section 6-5n-3e.

Colusa County Gas Completion

In the Arbuckle area, Occidental Petroleum Corp., completed Arbuckle Unit MM No. 1 flowing 2565 mcf of gas per day through a ¼" bean with pressures of 1150/1250 psi from the perforated intervals 6145-6170 and 6330-6378 feet. The Upper Wiggins Zone was logged from 6153-6183 feet and the Alexander Zone from 6342-6375 feet. Drilled to a total depth of 6625 feet and redrilled to 6528 feet, the well has 5½" casing cemented at 6493 feet. Location of the completion is in the southeast quarter of Section 27-14n-2w.

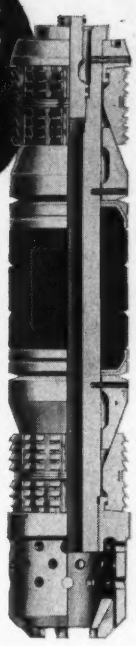
Doheny Gas Test

In the Beehive Bend area in Glenn County, E. L. Doheny, Operator, has awarded a contract to Brown Drilling Co. to drill Montz No. 1 on Lot 996 of the Jacinto Unit in Section 17-19n-2w. Located on the west flank of the Beehive Bend gas field, the well will be drilled to approximately 7750 feet.

Two Gulf Gas Tests

Western Gulf Oil Company is grading rig sites for two tests in the Buckeye area, Colusa County. Wilkins Unit B No. 2 is located in the northwest quarter of Section 24-13n-1w and Wilkins Unit B No. 3 is in the southeast quarter of Section 14-13n-1w.

NEW FROM OTIS



Type BC Wire Line Bridge Plug

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- *Small O.D. for easy running.*
- *Covers wider range of casing weights.*
- *Can be set with any pressure setting tool.*

Here's a casing bridge plug with more plus features than any other plug on the market — yet it costs you no more! It's short and compact — less to drill up — designed to save you up to 50 per cent in rig time when the plug is removed. The Type BC Otis Wire Line Bridge Plug is designed to provide a positive plug, to prevent movement of fluid or gas from either direction in the casing, or to plug and abandon. The Type BC has a small O.D. for ease of running—yet it is designed to set in a wider range of casing weights than any other plug available today.

Available Through Any Electric Line Service Company. The Type BC Otis Wire Line Bridge Plug is available through any electric line service company and may be set with any pressure setting tool. Otis bridge plugs are stocked at more than 247 different field locations to make sure they are readily available to the service company of your choice. The next time you need a bridge plug — specify Otis.

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General Offices: 6612 Denton Drive • Dallas

Vernalis Gas Completion

Porter Sesnon and Great Basins Petroleum Company et al, completed Sesnon-Vernalis Unit Two No. 26-22 flowing 4000 mcf of gas per day through a ½" bean and was shut in waiting for line connection. Located in the southwest quarter of Section 22-3s-6e, an offset to production, the well was drilled to a total depth of 4283 feet and cemented 5½" casing at 4172 feet. The 5½" casing was gun perforated at five spots within the interval 3891-3741 feet, opposite the A-2 and B-1 Zones.

COASTAL AREA

Petan Company Wildcat Test

In the Moorpark area in Ventura County, Petan Company is grading rig site for a wildcat test, Well No. 1 located in the southwest quarter of Section 33-3n-19w. Ken Evans will do the engineering on the 4200 foot test and A. D. Rushing, Inc. has the contract to do the drilling.

Offshore Well Suspended

Phillips Petroleum Company drilled to a total depth of 6510 feet and has suspended operations on Phillips Petroleum-Pauley et al-State 2205 E.T. No. 4. The well is located offshore from Naples in projected Section 15-4n-30w.

Two Offshore Wells Spudded

Offshore from Cojo, Phillips Petroleum Company et al are drilling two new tidelands tests. Both wells are drilling below 2500 feet. State 2207 E.T. No. 9 is located in projected Section 13-4n-34w and State 2207 E.T. No. 11 in projected Section 14-4n-34w.

North Tapo Extension

G. R. Nance is grading roads and rig site for Tapo No. 2, a wildcat test, located in the northwest quarter of Section 1-3n-18w, 1000 feet west of production. The test will be drilled to about 2500 feet, and Don Jackson has the contract to do the drilling.

Rincon Island Completion

Richfield Oil Corp. completed State 1466 No. 51 flowing 65 b/d of 30.4 gravity oil cutting 1 per cent from a plugged depth of 3005 feet. Total depth of the well is 3215 feet with 8⅝" casing cemented at 2790 feet. The well is located offshore from Rincon in projected Section 13-3n-25w.

San Mateo County Completion

In the La Honda area, Neaves Petroleum Developments completed

Neaves-Texaco-Burns No. 1 pumping 75 b/d of 16.9 gravity oil cutting 1 per cent from the perforated interval 1267-1328 feet. Located 2000 feet southeast of production in the southwest quarter of Section 22-7s-4w, the well was drilled to a total depth of 4015 feet and plugged back to 1328 feet. 5½" casing was landed at 1328 feet and cemented through perforations at 1258 feet.

San Miguelito Redrill

Continental Oil Company is preparing to redrill Grubb No. 801-G located in the southwest quarter of Section 25-3n-24w. The well was originally completed in 1956 from a redrilled depth of 14,264 feet. Total depth of the well is 14,295 feet.

SAN JOAQUIN VALLEY

Lakeside Test For Tidewater

Tidewater Oil Company is preparing to spud KCL No. 36-35, its fourth test of the recently discovered Lakeside Field. Location for the well is in the southwest quarter of Section 35-30s-26e, one mile north of the area where Tidewater has completed three producers.

Buena Vista Hills Outpost Test

Standard Oil Company has graded rig site for P. O. Fee No. 542-7B located in the northwest quarter of Section 7-31s-23e. The location is approximately two miles northwest of the Buena Vista Hills production and will be drilled to about 6500 feet.

Mountain View Recompletion

Dolley, Morton and Dolley recompleted Nance No. 2 flowing 382 b/d of 33.0 gravity oil cutting 3 per cent. Flow was through a 16/64" bean with pressures of 620/120 psi. Located in the northwest quarter of Section 30-30s-29e, the well was originally completed by A. T. Jergins from a depth of 5699 feet in 1934. Dolley, Morton & Dolley deepened the well to 5970 feet and has 5½" casing landed at 5970 feet with perforations from 5850-5896 feet and 5903-5905 feet open to production. Nance No. 1, also in Section 30, is being redrilled and will be recompleted in the Santa Margarita.

Four Antelope Hills Wells

Shell Oil Company has staked locations for four wells on the Williams lease. Williams No. 74X-6, 75X-6, 78X-6 and 177-6, will all be drilled in the southeast quarter of Section 6-28s-20e.

Buena Vista Outpost

On the north edge of the Buena Vista Hills field, Standard Oil Company is drilling below 1000 feet on Well No. 32-15B. The test is located in the northwest quarter of Section 15-31s-23e.

Wheeler Ridge Development

In the Windgap area of the Wheeler Ridge field, Richfield Oil Corp. is preparing to drill KCL-L No. 74-35. Location of the field development well is in the southwest quarter of Section 35-11n-20w.

Garrison City Extension Completing

Carr and Wrath's Mitchel No. F-2-5 is installing flow lines after flowing to the sump to clean out the drilling fluid and was shut in. Perforations open to production are from 4472-4461 feet. Production will be from the Mulinia Sand, topped at 4462 feet. The well is located in the northeast quarter of Section 5-28s-24e, approximately 3500 feet northwest of production and was drilled to a total depth of 6050 feet. 5½" casing was cemented at 4520 feet.

San Emidio Nose Completion

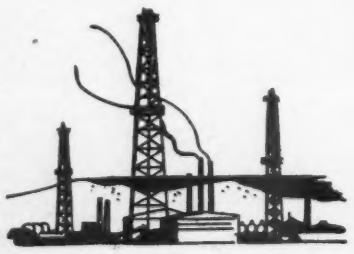
Richfield Oil Corp. completed KCL-H No. 27-9 flowing 343 b/d of 30.1 gravity oil with a cut of 3 per cent from the perforated interval 11,503-11,588 feet. Total depth of the well is 11,944 feet with 7" casing cemented at 11,588 feet and a 5½" liner is landed at 11,588 feet. The completion is located in the southwest quarter of Section 9-11n-21w.

Fruitvale Extension Test

Union Oil Company is preparing to spud KCL No. 21X-17, a field extension test. Location of the well is in the northwest quarter of Section 17-29s-27e.

New Field Discovery For Shell

Shell Oil Company is credited with a new field discovery in the White Wolf area. KCL No. 52-2 was placed on the pump and is producing 16 b/d of 14.0 gravity oil with a 4.8 per cent cut from the perforated interval 3688-3910 feet. Located in the northeast quarter of Section 5-10n-21w, the well was drilled to a total depth of 8245 feet and suspended in November 195[illegible]. Before being placed on the pump, the formation was sand frac'd and the liner gravel packed.



Belgian Anticline Outpost Abandoned

Shell Oil Company drilled to a total depth of 2600 feet on So. Cal. Pet. No. 75-7 and after running logs was plugged and abandoned. The test was located in the southeast quarter of Section 7-30s-21e, approximately 3500 feet northwest of production.

North Tejon Completion

Standard Oil Company completed Muzinich Community No. 318-16 flowing 128 b/d of clean oil through a 48/64" bean from five perforated intervals within 11,810-12,224 feet. Located in the southwest quarter of Section 16-11n-19w, the well was drilled to a total depth of 12,260 feet and cemented 7" casing at 11,805 feet. A 5" blank liner was cemented at 12,258 feet and then gun perforated. Reserve Oil and Gas Company and Butler-Wehr Asociates each have a 1/6th interest in Section 6.

Comanche Point

Universal Consolidated Oil Company is drilling below 4400 feet on Evans No. 81-36 located in the northeast quarter of Section 36-12n-19w. The proposed depth of the test is 5500 feet and it is located two miles west of the Comanche Point Field.

Two Round Mountain Tests

Shell Oil Company has graded locations for two field development wells. Olcese One No. 15 and No. 16 are both located in the southwest quarter of Section 17-28s-29e and will be Vedder Sand completions.

OTHER AREAS

Arizona

Texaco Inc. is reported to have recovered some helium gas in testing Navajo-Z No. 1 located in the southwest quarter of Section 36-41n-30e, Apache County. On a test of the interval 6180-6299 feet gas flow was 125[illegible] mcf with 6 per cent helium and flow from the interval 6299-6334 feet was

670 mcf, also containing 6 per cent helium. Located 2½ miles southwest of the Bita Peak area, the well is scheduled as a 7000 foot Devonian test.

Montana

The Tiger Oil Company is drilling below 2000 feet on Government No. 1 located in the southeast quarter of Section 9-8s-62e in Carter County. The well will be a 6300 foot Ordovician test and is ten miles southeast of the town of Albion.

Signal Drilling and Exploration Company is ready to spud Government No. 1 located in the northwest quarter of Section 30-36n-37e. The well is scheduled to be a 5500 foot Mission Canyon test and is the first of five wells to be drilled in Valley County by the company.

Mobil Oil Company has graded location for Federal No. F-31-29 in the northeast quarter of Section 29-32n-59e, Sheridan County. Scheduled to go to 7900 feet as a Mission Canyon test, the well is located southerly of the company's Dwyer area discovery.

New Mexico

Two new Dakota tests will be drilled in San Juan County, one by El Paso Natural Gas Company and one by Redfern and Herd. El Paso Natural Gas will drill Silan No. 5, a 7000 foot test, in the southwest quarter of Section 5-27n-8w, 3½ miles east of the Largo-Dakota production. Redfern and Herd's Walker No. 1 will be a 6700 foot Dakota test and is located in the northwest quarter of Section 2-29n-12w, three miles south of nearest production.

Intex Oil Company completed Baja No. 1 as a new discovery pumping 30 b/d of 34.0 gravity clean oil from the interval 1996-2357 feet. Production is from the Sanastee, not previously produced in the area. The completion is located in the northwest quarter of Section 9-26n-1e in Rio Arriba County.

Otto Reynolds, Belknap No. 1, on an initial test flowed at a rate of 500 b/d clean oil through a 7/64" bean, indicating a new McKinley County discovery. Production is from the Basal Mancos through perforations from 2902-2940 feet. The test is located in the southeast quarter of Section 13-19n-6w. Total depth of the well is 3438 feet with 4½" casing cemented at 3420 feet.

Aztec Oil and Gas Company is preparing to spud two San Juan County tests, both to test the Dakota. Richardson No. 6, located in the southeast quarter of Section 22-31n-12w, will be a dual completion in the Mesaverde and Dakota. The second test, Cain No. 10, is located in the southwest quarter of Section 15.

Utah

Albert Stevenson, Los Angeles operator, drilled to a total depth of 6111 feet on Navajo No. 44-35-1 and abandoned the well without testing. The test was located in the southeast quarter of Section 35-39s-25e in the Havenweep area, San Juan County.

Wyoming

Hondo Oil and Gas Company completed Federal No. 1 as a new discovery pumping 100 b/d of 19.0 gravity oil with a cut of 6 per cent from the perforated interval 7902-7942 feet. Located in the northeast quarter of Section 13-50n-69w in Campbell County, 1½ miles northwest of the North Donkey Creek production, the well was drilled to a total depth of 8086 feet and cemented 5½" casing on bottom.

Forest Oil Company's Union Pacific Railroad No. 19-1, Arch-2, on a short test flowed 610 b/d rate clean oil through a 1" bean and was shut in due to lack of storage. Production is from the Almond perforations 5090-5066 feet. The completion is the second on the Arch Unit and is 1½ miles northeast of present production in Sweetwater County in the southwest quarter of Section 19-19n-98w. Total depth is 5564 feet with 5½" casing cemented at 5539 feet.

Pan American Petroleum Company has staked location for Unit No. 1 in the southeast quarter of Section 16-49n-92w on the Rairden Unit in Big Horn County. The area to be tested is midway between the Manderson and Worland Fields and will go to 9500 feet to test the Phosphoria.

Locations for three wildcat tests have been announced for the Powder River Basin to test the Pennsylvanian and Cretaceous. Skelly Oil Company will drill Guthery No. 1 in the southeast quarter of Section 34-52n-68w two miles north of the Miller Creek field. The well will be a 7000 foot Minnelusa test. Davis Oil Company will drill O'Connor No. 1 six miles northwest of Miller Creek in the southeast quarter of Section 30-52n-69w. The well is scheduled to be a 6700 foot Dakota test. True Oil Company will drill a Minnelusa test in the northwest quarter of Section 28-52n-69w, two miles northeast of the Davis Oil Company's location.

THIS LAUGH OFF!!

An elderly man went to a psychiatrist and complained about dreaming of lovely, lightly clad young ladies who kept running in and out of his house all night.

"So you want me to cure you of this dream?" asked the doctor.

"Oh, no," exclaimed the oldtimer, "I just want you to make them stop slamming the door!"

A musician worked two weeks on an arrangement and then his wife didn't go out of town after all.

Woman on telephone at 4 a.m.: "Doctor, what shall I do with the rectal thermometer?"

Doctor: (Censored)

Wife to husband: "I scratched the front fender a little, dear—if you want to look at it, it's in the back seat."

A man teacher in high school had several smart-alec boys in his room. While he was out of the room one of the boys drew the likeness of a jackass on his coat with chalk.

When he returned to the room and saw the coat, he sat reflectively for a time, apparently deep in thought.

"I've been wondering for several minutes, but I can't make up my mind for sure which one of you boys wiped his face on my coat while I was out of the room."

He walked up and began shaking his fist in the guy's face. "What's this I hear about you telling everyone you saw a wart on my wife?" he shouted.

"That's not true," the other exclaimed. "I merely said it felt like a wart. That's how these rumors get started."

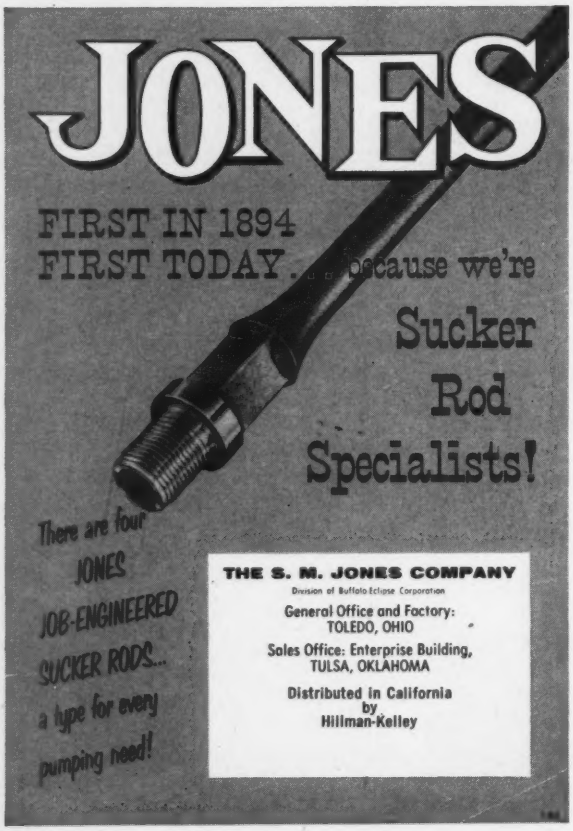
An enterprising sailor offered to smuggle a young woman to Hawaii and hid her in a lifeboat. After several days and nights had passed with the sailor spending most of his time with the girl, she began to worry why they didn't reach their destination.

Finally, she went to the captain of the boat and confessed and told him the whole story. Then she asked: "When do we get to Honolulu?"

"Lady," the captain said, "This is the Seattle-Bremerton ferry."

Rich young man: "Why does a talented, beautiful girl like you dance in a run-down, sordid place like this?"

Girl: "I don't know unless it's because I meet a lot more prominent, eligible, rich men like yourself than I did as a librarian."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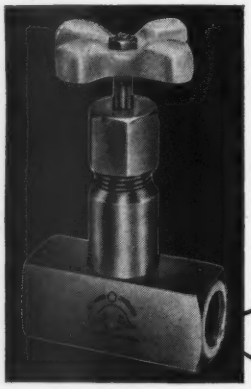

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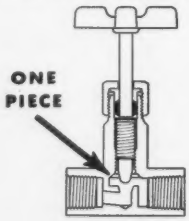

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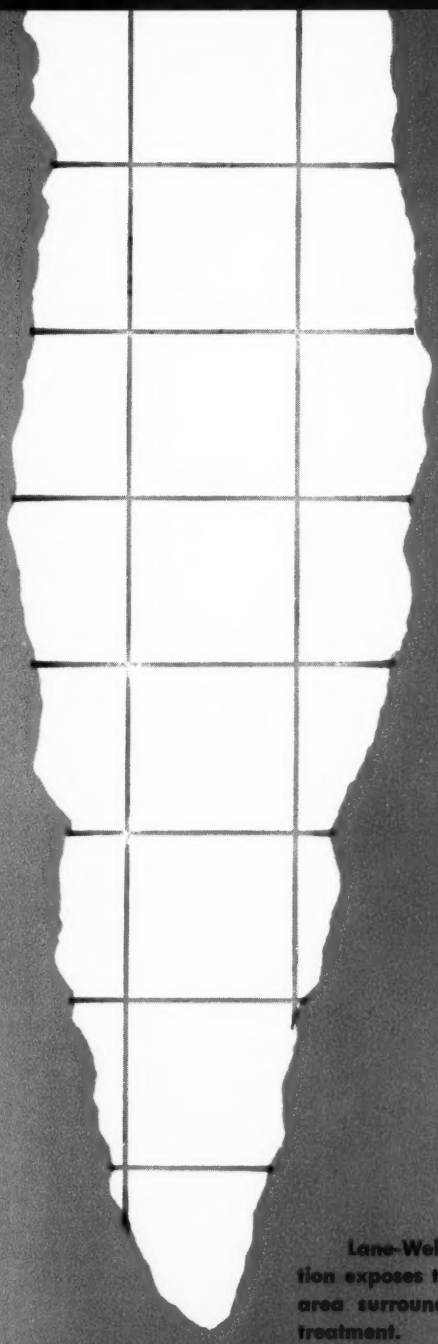

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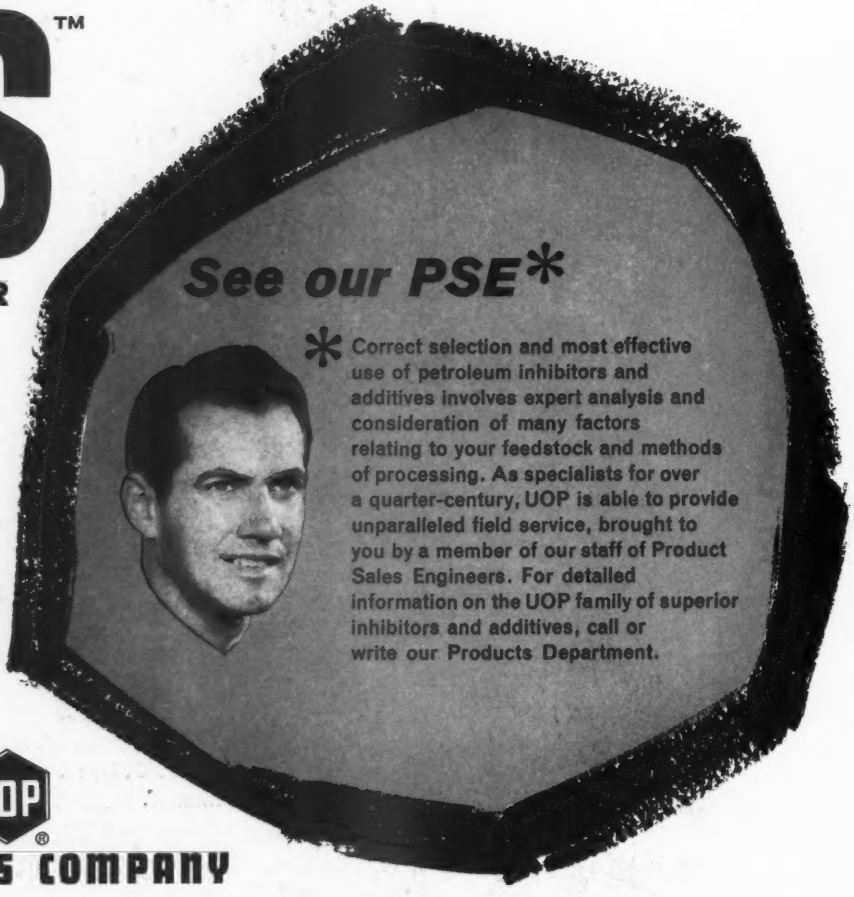
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